

***ClearOne***<sup>®</sup>



INTERACT AT/PRO SERIAL COMMAND GUIDE

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## PREFACE

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## TYPE AND DEVICE IDS

The Type ID and Device ID for current supported boxes on the expansion bus have the following definitions:

Type ID	Unit Type	Device ID Range
0x13 (J)	INTERACT AT	0x00
0x14 (K)	INTERACT Pro	0x00

## CONVENTIONS

This definition uses the following typographic conventions used in this document:

Convention	Description
<X>	Parameters enclosed in "< >" indicate a mandatory parameter.
[X]	Parameters enclosed in "[ ]" indicate an optional parameter.
1-8	Parameters separated by a hyphen ("-") indicate a range between the values.
4,7,9	Parameters separated by a comma "," indicate a list of available values.
BAUD	Words in <b>UPPERCASE Bold</b> indicate command text.
DEVICE	Indicates the Device Type and Device ID.

### General Text Command Form Description

The commands are outlined in the Command table. The structure of serial commands is as follows:

- # (indicates the start of a command line), Type ID, Device ID, Command, then any additional options in the order that they appear in the command descriptions on the following pages. Commands can be either **UPPERCASE** or **lowercase**. Return values are always in upper case. In order for a command to be recognized by the serial port, the command must be terminated by a carriage return.
- If a '\*' is placed in the Type ID or Device ID fields, the command is to apply to all units or all devices respectively.
- If a command calls for a "NULL" value, leave a blank in the command line (for example "#80 MUTE 2 |" would return the current mute state of Mic 2 on device 80).

## COMMAND SUPPORT TABLE

Command Name	Interact AT	Interact Pro
AA	X	X
AAMB	X	X
AARINGS	X	X
ACONN	X	X
AD	X	X
AEC	X	X
AECMODE		X
AECREF	X	X
AECREF2		X
AGC	X	X
AMBLVL	X	X
BAUD	X	X
CALLDUR	X	X
CAMBAUD	X	
CAMCTRLMODE	X	
CAMFLOW	X	
CAMMOVE	X	
CAMPOSITON	X	
CAMPRESET	X	
CAMPRESETSET	X	
CAMPRESETSET2	X	
CAMSWITCHLAG	X	
CAMTRACK	X	
CAMZOOM	X	
CHAIRO	X	X
CLEAREFFECT	X	X
CLOCK	X	X
COMPRESS		X
COMPSEL		X
COMVER	X	X
CONTROLMODE	X	X
COUNTRY	X	X
CPRESET		X
DECAY	X	X
DEFAULT	X	X



Command Name	Interact AT	Interact Pro
DEVICE	X	X
DEVICETYPE	X	X
DIAL	X	X
DID	X	X
DSPVER	X	X
DSPVEREX		X
DUPDATE	X	X
DVER	X	X
ENETADDR	X	X
ENETDHCP	X	X
ENETDNS	X	X
ENETDNSA	X	X
ENETGATE	X	X
ENETSUBN	X	X
EQ	X	X
EQSEL	X	X
ERROR	X	X
FILSEL	X	X
FILTER	X	X
FLOW	X	X
FPGAVER	X	X
FPGAVEREX		X
FREQTABLE	X	X
GAIN	X	X
GATE	X	X
GHOLD	X	X
GMODE	X	X
GMUTE	X	X
GRATIO	X	X
GREPORT	X	X
HCONF	X	X
HOOK	X	X
HOOKD	X	X
LABEL	X	X
LOCALNUM	X	X
LOGMASK	X	X
LVL	X	X

Command Name	Interact AT	Interact Pro
LVLREPORT	X	X
LVLREPORTEN	X	X
MANUFACTURER	X	X
MICCAMPRESET	X	
MLINE	X	X
MMAX		X
MTRX	X	X
MTRXCLEAR		X
MTRXLVL		X
MUTE	X	X
NCD	X	X
NCSEL	X	X
NLP	X	X
NOM		X
OFFA	X	X
PAA	X	X
PBDIAL	X	X
PHONEBOOKADD	X	X
PHONEBOOKCNT	X	X
PHONEBOOKDEL	X	X
PHONEBOOKREAD	X	X
PODUPDATE	X	X
PODVER	X	X
PP	X	X
PTTHRESHOLD	X	X
PUSHTOTALK	X	X
RADIOEN	X	X
RADIOSCAN	X	X
RADIOSCANRES	X	X
RADIOSTATEN	X	X
RADIOSTATS	X	X
RAMP	X	X
REDIAL	X	X
REFSET		X
RESET	X	X
RFVER	X	X
RING	X	X

Command Name	Interact AT	Interact Pro
RINGEREN	X	X
RINGERLVL	X	X
RINGERSEL	X	X
RINGERTEST	X	X
SILENCEPRST	X	
SPEEDDIAL	X	X
SLEVEL	X	
SPLIFT	X	
STEREOMIX	X	
SYSCHECKS	X	X
SYSRESULTS	X	X
TCSM	X	X
TCSTM	X	X
TE	X	X
TELCOLVLCtrl	X	X
TELSET	X	X
TIMELOCALE	X	X
TLEC	X	X
TM	X	
TNLP	X	X
UID	X	X
VER	X	X
VEREX		X
VOLBUT		X
VOLUME	X	X
ZDIAL	X	X
ZRING	X	X
ZTE	X	X

### AA – Auto Answer Enable/ Disable

This command selects/reports the setting of auto answer.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AA <Channel> [Value]

### AAMB – Adaptive Ambient Mode

This command selects/reports the setting of the Adaptive Ambient.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AAMB <Channel> [Value]

### AARINGS – Number of Rings to Auto Answer On

This command selects/reports the setting of the number of rings to auto answer.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	2 or 4 (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AARINGS <Channel> [Value]

### ACONN – Audible Connect / Disconnect Indication

This command selects/reports the status of the audible connect / disconnect indication.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ACONN <Channel> [Value]

### AD – Auto Disconnect Enable/ Disable

This command selects/reports the setting of auto disconnect.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = Loop Drop 2 = Call Progress 3 = Loop Drop + Call Progress (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AD <Channel> [Value]

### AEC – Acoustic Echo Canceller Enable/ Disable

This command selects/reports the setting of Acoustic Echo Canceller for the specified Microphone channel.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AEC <Channel> [Value]

### AECMODE – AEC Stereo / Mono Mode

This command selects/reports the control mode for the AEC

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Mono 1 = Stereo (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AECMODE [Value]

### AECREF – Acoustic Echo Cancellation Reference

This command enables / disables or reports the current status of the AEC reference.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	2	See GroupAndChannels (Null to query in text)
Group	Group	2	2, 20 (O, B)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE AECREF [Channel Group]

## AECREF2 – Acoustic Echo Cancellation Reference

This command enables / disables or reports the current status of the 2<sup>nd</sup> AEC reference.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	2	See GroupAndChannels (Null to query in text)
Group	Group	2	2, 20 (O, B)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE AECREF2 [Channel Group]

## AGC – Automatic Gain Control

This command selects/reports the setting of automatic gain control for the specified channel.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE AGC <Channel> <Group> [Value]

## AMBLVL – Ambient Level Adjust

This command selects / reports the current Ambient Level.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See Groups and Channels
Group	Group	1	3 (M)
Value	Signed Float	2	-80.00 - 0.00 (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE AMBLVL <Channel> [Value]

## BAUD – Baud Rate

This command selects/reports the baud rate of the serial port.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	38400, 57600, 115200 (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE BAUD [Value]

### CALLDUR – Call Duration

This command indicates how long a call has lasted. If no call is in session, this will report 0. At the time of call termination, this command will automatically be sent out reporting the duration.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0
Duration	String	8	String of format HR:MN:SS

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CALLDUR <Channel> <Duration>

### CAMBAUD – Camera Control Baud Rate

This command selects/reports the baud rate of the camera control serial port.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	4800, 9600, 14400, 19200 (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMBAUD [Value]

### CAMCTRLMODE – Camera Control Port Mode

This command sets / reports the camera control port mode.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Sony 1 = Canon (Null to Query in Text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMCTRLMODE [Value]

### CAMFLOW – Camera Control Flow Control

This command selects/reports the flow control of the camera control serial port on the unit. Hardware flow control is implemented using DTR and DSR.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMFLOW [Value]

## CAMMOVE – Move the Camera

This command sends commands to move the camera on the camera control port. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	19 (V)
Value	Unsigned Integer	2	0 = Stop 1 = Pan Right 2 = Pan Left 3 = Tilt Up 4 = Tilt Down 5 = Zoom In 6 = Zoom Out

### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMMOVE <Channel Group> [Value]

## CAMPOSITION – Camera Position

This command sets or reports the current position of the camera on the camera control port.

### ARGUMENT DETAILS

Name	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	19 (V)	
Pan Angle	Signed Float	2	If Sony, -100 to 100. If Canon, -100 to 100. (NULL to Query in Text)	Degrees
Tilt Angle	Signed Float	4	If Sony, -25 to 25. If Canon, -30 to 30.	Degrees

### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMPOSITION <Channel Group> [Pan Tilt]

## CAMPRESET – Camera Preset

Executes a camera preset. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	1 – 10

### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMPRESET [Value]



### CAMPRESETSET – Camera Preset Setup

This command sets the current position of a camera as a camera preset. There is no query for this command.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Preset	Unsigned Integer	2	1 – 10
Channel	Channel	1	See GroupAndChannels
Group	Group	1	19 (V)
Label	String	16	

#### TEXT FORM DETAILS

COMMAND FORM: DEVICE CAMPRESETSET <Preset Channel Group Label>

### CAMPRESETSET2 – Camera Preset Setup 2

This command sets or reports the current camera preset.

#### ARGUMENT DETAILS

Name	Type	Size	Values	Units
Preset	Unsigned Integer	2	1 – 10	
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	19 (V)	
Pan Angle	Signed Float	2	If Sony, -100 to 100. If Canon, -100 to 100. (NULL to Query in Text)	Degrees
Tilt Angle	Signed Float	2	If Sony, -25 to 25. If Canon, -30 to 90.	Degrees
Zoom Angle	Signed Float	4	If Sony, 6.6 to 65. If Canon, 3 to 47.5.	Degrees
Label	String	16		

#### TEXT FORM DETAILS

COMMAND FORM: DEVICE CAMPRESETSET2 <Preset> [Channel Group Pan Tilt Zoom Label]

### CAMSWITCHLAG – Camera Switch Time Lag

This command set the switch time lag for voice tracking.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Float	4	0.00 – 5.00 s

#### TEXT FORM DETAILS

COMMAND FORM: DEVICE CAMSWITCHLAG [Value]

### CAMTRACK – Camera Track

This command selects/reports the camera voice tracking mode.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMTRACK [Value]

### CAMZOOM – Camera Zoom

This command sets or reports the current Zoom of the camera on the camera control port.

#### ARGUMENT DETAILS

Name	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	19 (V)	
Zoom Angle	Signed Float	2	If Sony, 6.6 to 65. If Canon, 3 to 47.5. (NULL to Query in Text).	Degrees

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CAMZOOM <Channel Group> [Zoom]

### CHAIR – Chairman Override Mode

This command selects/reports the status of the chairman override for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CHAIR <Channel> [Value]

### CLEAREFFECT – Clear Effect Wide Band Telco Emulation

This command enables / disables or reports the current status of the clear effect.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CLEAREFFECT <Channel> [Value]

## CLOCK – Clock Set

This command sets or reports the current time.

### ARGUMENT DETAILS

Name	Type	Size	Values
Date	Unsigned Integer	1	1 – 31
Month	Unsigned Integer	1	1 – 12
Year	Unsigned Integer	2	2000 – 2099 (NULL to Query in Text)
Hours	Unsigned Integer	1	00 – 23
Minutes	Unsigned Integer	1	00 – 59
Seconds	Unsigned Integer	1	00 – 59
Day of Week	Unsigned Integer	1	1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 7 = Saturday

### TEXT FORM DETAILS

COMMAND FORM: DEVICE CLOCK [Date Month Year Hours Minutes Seconds Day]

## COMPRESS – Compressor

This command selects/reports the compressor configuration.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	5 (P)
Threshold	Signed Integer	1	-60 – 20 dB (Null to query in text)
Ratio	Unsigned Integer	1	1 – 20
Attack	Unsigned Float	2	0.00 – 100.00 ms
Release	Unsigned Integer	2	100 – 2000 ms
Gain	Unsigned Float	4	0.00 – 20.00 dB

### TEXT FORM DETAILS

COMMAND FORM: DEVICE COMPRESS <Channel> [Threshold Ratio Attack Release Gain]

### COMPSEL – Compressor Select

This command selects/reports the compressor on/off status.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	5 (P)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE COMPSEL <Channel> [Value]

### COMVER – COM Version

This command reports the version of the Interact COM (USB) firmware. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	12	Version of format NNNN (bcd) (Sent with a Null in text, value returned)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE COMVER [Value]

### CONTROLMODE – Table Top Controller Control Mode

This command selects/reports the control mode for the table top controller

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Telco 1 = USB (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE CONTROLMODE [Value]

## COUNTRY – Country Selection

This command sets / reports the country for compliance.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	1 = US / Canada 2 = Europe 3 = Mexico 4 = Australia / New Zealand 5 = South Africa 6 = Japan 7 = Brazil 8 = South Korea 9 = China 10 = Singapore 11 = Taiwan 12 = Hong Kong 13 = India (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM: DEVICE COUNTRY [Value]

## CPRESET – Configuration Preset

This command runs a configuration preset. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	1 – 4 (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM: DEVICE CPRESET <Value>

## DECAY – Decay Rate

This command selects/reports the decay rate for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	1 = Slow 2 = Medium 3 = Fast (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM: DEVICE DECAY <Channel> [Value]

## DEFAULT – Default the Unit

Sets the unit to factory defaults. **There is no query for this command.**

### ARGUMENT DETAILS

None

### TEXT FORM DETAILS

COMMAND FORM: DEVICE DEFAULT

## DEVICE – Device Identification Label

This selects/reports the manufacturer identification label of the specific channel.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 3, 7 (O, M, L)
Reserved	Unsigned Integer	2	0
Label	String	32	1 – 32 characters CLEAR = clear the label (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE DEVICE <Channel> <Group> [Value]

## DEVICETYPE – Sets the Type of Device connected to an Input or Output

This command enables / disables or reports the current type of device connected to an input or output.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 7 (O, L)
Value	Unsigned Integer	2	(NULL to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE DEVICETYPE <Channel> <Group> [Value]

## DIAL – DTMF Dialing

This command dials a DTMF sequence or reports back the last sequence dialed.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0
Number	String	44	1 – 44 Chars of '0' – '9', 'A' – 'D', '*', '#', ',' (Null to query last number dialed in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE DIAL <Channel> [Number]

## DID – Device ID

This command reports the device id. This command is read only.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	See TypeAndDeviceIDs (Null sent in text, Value returned)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE DID [Value]

### DSPVER – DSP Version

This command reports the version of the DSP code in the INTERACT Pro and AT unit. **This command is read only.**

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 for Host 1 for Satellite 9 for Telco (Pro only)
Value	Unsigned Integer	32	(Sent with a Null in text)
Value	Unsigned Integer	32	

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE DSPVER <Value>

### DSPVEREX – 8i DSP Version

This command reports the version of the DSP code in the INTERACT Pro 8i unit. **This command is read only.**

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 for Host 1 for Satellite
Value	Unsigned Integer	32	(Sent with a Null in text)
Value	Unsigned Integer	32	

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE DSPVEREX <Value>

### DUPDATE – Update Notification when downloading

This command reports updates when downloading information to the mixer. If sent to the mixer, it will cancel a download.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Argument 1	Hexadecimal	2	Group and Channel of the download Group N (15), channels 2 (HTML skin) and 3 (Firmware).
Argument 2	Hexadecimal	2	Status and percent done.
Message	String	60	

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE DUPDATE <Argument 1> <Argument 2> <Message>

### DVER – Command Dictionary Version

This command reports the version of the command dictionary being used by the unit. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	(Sent with a Null in text)

#### BINARY FORM DETAILS

COMMAND ID:42

Number of ARGUMENTS:1

ARGUMENT FORM: <Value>

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE DVER [Value]

### ENETADDR – Ethernet port IP Address

This command selects/reports the IP Address of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	IP Address	4	(Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETADDR [Value]

### ENETDHCP – Ethernet port Dynamic Host Configuration Protocol address assignment

This command selects/reports the use of DHCP address of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	DHCP Address	4	(Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETDHCP [Value]

### ENETDNS – Ethernet DNS Selection

This command selects/reports the use of DNS of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = On 1 = Off 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETDNS [Value]



### ENETDNSA – Ethernet DNS Server Address

This command selects/reports the DNS's IP Address of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	IP Address	4	(Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETDNSA [Value]

### ENETGATE – Ethernet default Gateway address

This command selects/reports the default gateway of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	IP Address	4	(Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETGATE [Value]

### ENETSUBN – Ethernet subnet mask

This command selects/reports the Subnet mask of the Ethernet port on the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	IP Address	4	(Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ENETSUBN [Value]

### EQ – Equalization

This command enables / disables or reports the current status of the equalization on the input or output.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 7 (O, L)
High Gain	Signed Float	2	-12.00 – 12.00 (Null to query in text)
Mid Gain	Signed Float	2	-12.00 – 12.00
Low Gain	Signed Float	2	-12.00 – 12.00

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE EQ <Channel> <Group> [High Mid Low]

## EQSEL – Equalization Enable

This command enables / disables or reports the current status of the equalization on the input or output.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 7 (O, L)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (NULL to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE EQSEL <Channel> <Group> [Value]

## ERROR – Error Notification

This reports back an error that occurred with a command. This cannot be sent or queried.

### ARGUMENT DETAILS

Name	Type	Size	Values
Original ID	Unsigned Integer	2	The command ID of the command sent that generated the error.
Original Mode	Unsigned Integer	2	The original mode the command sent was in. 1 = ASCII 2 = BINARY
Error Code	Unsigned Integer	4	ErrorMessages

### TEXT FORM DETAILS

COMMAND FORM:DEVICE ERROR <Error Message>

## FILSEL – Filter Selection

This command selects/reports the on/off state of a filter for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Node	Unsigned Integer	1	1 – 3 for Group 3 (M) 1 – 4 for Group 5 (P) (* for all in text, 0xff for all in binary)
Value	Unsigned Integer	1	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE FILSEL <Channel> <Node> [Value]

## FILTER – Filter Parameters

This command selects/reports the parameters for a filter on a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values																				
Channel	Channel	1	See GroupAndChannels																				
Group	Group	1	3, 5 (M, P)																				
Node	Unsigned Integer	1	1 – 3 for Group 3 (M) 1 – 4 for Group 5 (P)																				
Type	Unsigned Integer	1	0 = None																				
			1 = All Pass																				
			2 = Low Pass																				
			3 = High Pass																				
			4 = Low Shelf																				
			5 = High Shelf																				
			6 = PEQ																				
			7 = CD Horn																				
			11 = Notch																				
						<table border="1"> <thead> <tr> <th>Group 3 (M)</th> <th>Group 5 (P)</th> </tr> </thead> <tbody> <tr><td>X</td><td>X</td></tr> <tr><td>X</td><td>X</td></tr> <tr><td>X</td><td>X</td></tr> <tr><td></td><td>X</td></tr> <tr><td></td><td>X</td></tr> <tr><td></td><td>X</td></tr> <tr><td>X</td><td>X</td></tr> <tr><td></td><td>X</td></tr> <tr><td>X</td><td>X</td></tr> </tbody> </table>	Group 3 (M)	Group 5 (P)	X	X	X	X	X	X		X		X		X	X	X	
Group 3 (M)	Group 5 (P)																						
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Frequency	Unsigned Float	4	<table border="1"> <thead> <tr> <th>Type</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0 (NULL in text)</td> </tr> <tr> <td>2 – 11</td> <td>20.00 to 20000.00 Hz</td> </tr> </tbody> </table>	Type	Values	0	0 (NULL in text)	2 – 11	20.00 to 20000.00 Hz														
			Type	Values																			
0	0 (NULL in text)																						
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Gain	Signed Float	2	<table border="1"> <thead> <tr> <th>Type</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>0 – 3, 11</td> <td>0 (NULL in text)</td> </tr> <tr> <td>6</td> <td>-15.00 15.00 dB</td> </tr> </tbody> </table>	Type	Values	0 – 3, 11	0 (NULL in text)	6	-15.00 15.00 dB														
			Type	Values																			
0 – 3, 11	0 (NULL in text)																						
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Bandwidth	Unsigned Float	2	<table border="1"> <thead> <tr> <th>Type</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>0 – 3</td> <td>0 (NULL in text)</td> </tr> <tr> <td>6, 11</td> <td>0.05 – 5.00 Octaves</td> </tr> </tbody> </table>	Type	Values	0 – 3	0 (NULL in text)	6, 11	0.05 – 5.00 Octaves														
			Type	Values																			
0 – 3	0 (NULL in text)																						
6, 11	0.05 – 5.00 Octaves																						

### TEXT FORM DETAILS

COMMAND FORM:DEVICE FILTER <Channel> <Node> [Type Frequency Gain Bandwidth]

## FLOW – Flow Control

This command selects/reports the flow control of the serial port on the unit. Hardware flow control is implemented using DTR and DSR.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE FLOW [Value]

### FPGAVER – FPGA Version

This command reports the version of the FPGA code in the unit. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	12	(Sent with a Null in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE FPGAVER [Value]

### FPGAVEREX – FPGA Version

This command reports the version of the FPGA code in the InteractPro8i unit. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	12	(Sent with a Null in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE FPGAVEREX [Value]

### FREQTABLE – Frequency Table

This command sets or reports back the current frequency table.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	1 – 8 (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE FREQTABLE [Value]

### GAIN – Gain Adjustment

This command changes or reports back the gain for a specified channel.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 3, 5, 7, 16, 17, 26, 27, 28, 29 (O, M, P, L, T, R, H, N, D, W)
Value	Signed Float	2	-99.90 – 99.90 dB ** (Null to query in text)
Absol / Rel		0	A = Absolute R = Relative Null = Relative

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE GAIN <Channel> <Group> [Value] [Absol/Rel]

\*\* Note: Values indicate entry range only. Actual internal range of the gain stage is from –14.00 to 18.00 dB for Interact AT and from -65.00 to 20.00 dB for Interact PRO. Absolute values will be limited to the internal gain range.

### GATE – Gate Status

This command reports the gate status of Mics. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Hexadecimal	4	Bits 0 – 15 represent gate status on Mics 1 – 16 (Null sent in text, Value returned)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE GATE [Value]

### GHOLD – Gate Hold Time

This command selects/reports the gate hold time for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Float	2	0.10 – 8.000 s (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE GHOLD <Channel> [Value]

### GMODE – Gating Mode

This command selects/reports the status of the gate mode for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Auto 1 = On 2 = Off 3 = Override On (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE GMODE <Channel> [Value]

### GMUTE – Global Mute

This command selects/reports the global mute for the microphones.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Group	Group	2	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE GMUTE <Group> [Value]

If setting, 0 will turn mute off all microphones and 1 will mute all microphones. If querying, a 1 means all microphones are muted while a zero means at least 1 microphone is unmuted.

## GRATIO – Gate Ratio

This command selects/reports the ratio for gating for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 – 50 dB (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE GRATIO <Channel> [Value]

## GREPORT – Gate Report

This command selects/reports the mode of gate status reporting.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE GREPORT [Value]

## HCONF – Headset Configuration

This command selects/reports the headset configuration for the unit.

### ARGUMENT DETAILS

Name	Type	Size	Values					
Pin Out	Unsigned Integer	2	Value	Pin 1	Pin 2	Pin 3	Pin 4	Supported Headsets
			0	3 V	Spkr	Gnd	Mic	Avaya 4610
			1	Spkr+	Mic	Gnd	Spkr-	Cisco 7940
			2	Mic	Spkr	Spkr	Mic	NEC DT300, DT700 Series
(Null to query in text)								
Speaker (RX) Gain	Signed Integer	1	9, 6, 3, 0, -3,-6, -9, or -12 dB					
Microphone (TX) Gain	Signed Integer	1	9, 6, 3, 0, -3,-6, -9, or -12 dB					

### TEXT FORM DETAILS

COMMAND FORM:DEVICE HCONF [Pin Out Speaker Gain Mic Gain]

## HOOK – Hook Flash

This command sends a hook flash. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0

### TEXT FORM DETAILS

COMMAND FORM:DEVICE HOOK <Channel>

## HOOKD – Hook Flash Duration

This command selects/reports the hook flash duration.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	50 – 1000 ms (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE HOOKD <Channel> [Value]

## LABEL – Label

This selects/reports the label of the specific channel or the unit.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 3, 5, 7, 9, 16, 17, 26, 27, 28, 29 (O, M, P, L, U, T, R, H, N, D, W)
Reserved	Unsigned Integer	2	0
Label	String	32	For group U, 1 – 11 characters All other, 1 – 32 characters (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE LABEL <Channel> <Group> [Value]

## LOCALNUM – Local Number

This command sets or reports back the current value of the local number.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0
Number	String	16	1 – 16 Chars of '0' – '9', 'A' – 'D', '*', '#', ',' (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE LOCALNUM <Channel> [Number]





### LVLREPORTEN – Level Report Enable

Enables level reporting for the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Turn off reporting but leave current list 1 = Turn on reporting 2 = Turn off reporting and clear the list (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE LVLREPORTEN [Value]

### MANUFACTURER – Manufacturer Identification Label

This selects/reports the manufacturer identification label of the specific channel.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 3, 7 (O, M, L)
Reserved	Unsigned Integer	2	0
Label	String	32	1 – 32 characters CLEAR = clear the label (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE MANUFACTURER <Channel> <Group> [Value]

### MICCAMPRESET – Mic Camera Preset

This command associates a selected mic with a specified camera preset for voice tracking.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 to Clear 1 – 10 (NULL to Query in Text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE MICCAMPRESET <Channel> [Value]

### MLINE – Mic/Line

This command selects/reports the coarse gain for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = 0 dB 1 = 7 dB 2 = 14 dB 3 = 21 dB 4 = 28 dB 5 = 35 dB 6 = 42 dB 7 = 49 dB 8 = 56 dB (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE MLINE <Channel> [Value]

### MMAX – Maximum Number of Microphones

This command sets or reports the maximum number of microphones for gating.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 for unlimited 1 – 8 (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE MMAX [Value]

## MTRX – Matrix Routing

This command selects/reports the matrix routing of an input to an output.

### ARGUMENT DETAILS

Name	Type	Size	Values
Source Channel	Channel	1	See GroupAndChannels
Source Group	Group	1	3, 5, 7, 17, 27, 29 (M, P, L, R, N, W)
Destination Channel	Channel	1	The all channel is not allowed. (See GroupAndChannels)
Destination Group	Group	1	2, 5, 16, 20, 26, 28 (O, P, T, B, H, D)
Value	Unsigned Integer	4	0 = Cross point off 1 = Cross point on (not valid for PRO Mics) 2 = Toggle (not valid for PRO Mics) 3 = Non Gated (PRO Mics only) 4 = Gated (PRO Mics only) 6 = Prohibited (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE MTRX <Src. Ch.> <Src. Gp.> <Dest. Ch.> <Dest. Gp.> [Value]

## MTRXCLEAR – Matrix Clear

This command clears the matrix. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Reserved	4	0

### TEXT FORM DETAILS

COMMAND FORM:DEVICE MTRXCLEAR

## MTRXLVL – Matrix Level

This command selects/reports the attenuation at a matrix crosspoint.

### ARGUMENT DETAILS

Name	Type	Size	Values
Source Channel	Channel	1	See GroupAndChannels
Source Group	Group	1	3, 5, 7, 17, 27, 29 (M, P, L, R, N, W)
Destination Channel	Channel	1	The all channel is not allowed. (See GroupAndChannels)
Destination Group	Group	1	2, 5, 16, 20, 26, 28 (O, P, T, B, H, D)
Value	Signed Float	4	-18.00 – 0.00 dB (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE MTRXLVL <Src. Ch.> <Src. Gp.> <Dest. Ch.> <Dest. Gp.> [Value]

## MUTE – Mute

This command selects/reports the setting of mute on a specified channel.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 3, 5, 7, 16, 17, 26, 27, 28, 29 (O, M, P, L, T, R, H, N, D, W)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE MUTE <Channel> <Group> [Value]

## NCD – Noise Cancellation Depth

This command selects/reports the depth of noise cancellation for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	6 – 15 dB (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE NCD <Channel> [Value]4

## NCSEL – Noise Cancellation Select

This command enables / disables or reports the current status of noise cancellation.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3,17 (M, R)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE NCSEL <Channel> <Group> [Value]

## NLP – Non-Linear Processing

This command selects/reports the non-linear processing for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = Soft 2 = Medium 3 = Aggressive (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE NLP <Channel> [Value]

## NOM – Number of Open Microphones

This command selects/reports the setting of number of open microphone level adjust for an output.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2 (O)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE NOM <Channel> <Group> [Value]

## OFFA – Off Attenuation

This command selects/reports the off attenuation value for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Float	2	0.00 – 60.00 dB (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE OFFA <Channel> [Value]

## PAA – PA Adaptive

This command selects/reports the PA adaptive mode for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PAA <Channel> [Value]

## PBDIAL – Dial a PB Entry by Name

This command dials a speed dial number by name. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved	Unsigned Integer	2	0
Label	String	16	1 – 16 chars

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PBDIAL <Channel> <Label>

## PHONEBOOKADD – Adds an Entry to the Phonebook

This command saves an entry in the phonebook. There is no query!! No two entries can share the same label. An argument error will be returned if an entry already has the name. To change an entry, you must first delete it and then add it again. If label is blank, the first 20 characters of the number will be used as the label. Number must not be blank. If an entry already exists with the assigned speed dial it will be overwritten. The rest of the entries are alphabetized base on Label.

### ARGUMENT DETAILS

Name	Type	Size	Values
Speed Dial	Unsigned Integer	4	0 for not assigned to a speed dial 1 – 19 20 for Conference
Number	String	44	1 – 44 chars '0' – '9', 'A' – 'D', '*', '#'
Label	String	16	1 – 16 chars

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PHONEBOOKADD <ID Number Label>

### PHONEBOOKCNT – Queries the Number of Entries in the Phonebook

This command queries the number of entries in the phonebook. **This command is query only!!**

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 – 20

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE PHONEBOOKCNT [Value]

### PHONEBOOKDEL – Deletes an Entry to the Phonebook

This command deletes an entry in the phonebook. **There is no query for this command.**

#### ARGUMENT DETAILS

Name	Type	Size	Values
Label	String	16	1-16 chars

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE PHONEBOOKDEL <Label>

### PHONEBOOKREAD – Queries an Entry in the Phonebook By Index

This command queries an entry in the phonebook. **This command is query only!!**

#### ARGUMENT DETAILS

Name	Type	Size	Values
Index	Unsigned Integer	2	0 – 19 (Must be less than the Number of Phone Book Entries)
Speed Dial	Unsigned Integer	2	0 for not assigned to a speed dial 1 – 19 20 for Conference (NULL to query in text)
Number	String	44	1 – 44 chars '0' – '9', 'A' – 'D', '*', '#'
Label	String	16	1 – 16 chars

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE PHONEBOOKREAD <Index> [Speed Number Label]

## PODUPDATE – POD/BOB Status Update

This command reports the status of the POD / BOB's for the unit. This command is read only!!!

### ARGUMENT DETAILS

Name	Type	Size	Values
Type 1	Unsigned Integer	1	0 = Microphone POD / BOB not present 1 = Microphone POD present 2 = Microphone BOB present 3 = Interact EX present (Null to query in text)
Type 2	Unsigned Integer	1	0 = Microphone POD / BOB not present 1 = Microphone POD present 2 = Microphone BOB present
Type 3	Unsigned Integer	1	0 = Microphone POD / BOB not present 1 = Microphone POD present 2 = Microphone BOB present
USB	Unsigned Integer	1	0 = USB / Headset BOB not present 1 = USB / Headset BOB present

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PODUPDATE [Type 1 Type 2 Type 3 USB]

## PODVER – POD Version

This command reports the version of the FPGA code in the Break Out Box. This command is read only.

### ARGUMENT DETAILS

Name	Type	Size	Values
Pod	Unsigned Integer	4	1 – 3 for Microphone BOBs 4 for USB/Headset
Value	String	12	(Sent with a Null in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PODVER Pod [Value]

## PP – Phantom Power

This command selects/reports the status of the phantom power for a microphone.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE PP <Channel> [Value]



### PTTTHRESHOLD – Push to Talk Threshold

This command selects/reports the threshold for push to talk adaption for a Microphone channel.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Signed Float	2	-100.00 – 0.00 dB (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE PTTTHRESHOLD <Channel> [Value]

### PUSHTOTALK – Push To Talk Mode

This command selects/reports the push to talk adaption for a Microphone channel.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE PUSHTOTALK <Channel> [Value]

### RADIOEN – Radio Enable

This command enables / disables the radio.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RADIOEN [Value]

### RADIOSCAN – Radio Scan

This command scans the radio channels. There is no query for this command.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Reserved	4	0

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RADIOSCAN

### RADIOSCANRES – Radio Scan Results

This command reports the radio scan results. This command is reportable only. It cannot be queried or set.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Values	Unsigned Integer	8	1 byte for each of the Radio Channels 0 = Channel Free 1 = Channel Occupied (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RADIOSCANRES [Values]

### RADIOSTATEN – Radio Statistics Enable

This command enables / disables the radio statistics reporting.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RADIOSTATEN [Value]

### RADIOSTATS – Radio Statistics

This command reports the radio statistics. This command is reportable only. It cannot be queried or set.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Link Quality	Unsigned Integer	1	
RSSI	Integer	1	-128 – 0 dBm
Packet error count	Unsigned integer	2	

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RADIOSTATS [Value]

## RAMP – Ramp Gain Adjustment

This command starts / stops the gain ramp on a specified channel. There is no query for this command!

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	2, 5, 7 (O, P, L)
Rate	Signed Integer	1	-50 to +50 dB / s If Rate = 0, the ramp will stop If Rate < 0, the gain will ramp down If Rate > 0, the gain will ramp up
Target	Signed Integer	1	-65.00 to +20.00 dB If NULL in text (0x80) in binary, the ramp will use the gain range as the target.

### TEXT FORM DETAILS

COMMAND FORM: DEVICE RAMP <Channel> <Group> <Rate> [Target]

## REDIAL – Dial the last number again

This command redials the last number. There is no query for this command.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0

### TEXT FORM DETAILS

COMMAND FORM: DEVICE REDIAL <Channel>

## REFSET – Reference Set

This command selects/reports the output a virtual reference uses for gain tracking.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	20 (B)
Output Channel	Channel	2	See 2 (O) in GroupAndChannels

### TEXT FORM DETAILS

COMMAND FORM: DEVICE REFSET <Channel.> [Output]

## RESET – Reset

Resets the unit. **There is no query for this command.**

### TEXT FORM DETAILS

COMMAND FORM: DEVICE RESET

### RFVER – RF Version

This command reports the version of the microcontroller code for the RF in the USB/Headset Break Out Box. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	12	(Sent with a Null in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RFVER [Value]

### RING – Ring Indication

This command indicates a ringing line. This command is reportable only. It cannot be queried or set.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Ring cycle has stopped 1 = Ring cycle has begun

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RING <Channel> <Value>

### RINGEREN – Ringer Enable

This command selects/reports the status of the audible ring indication.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RINGEREN <Channel> [Value]

### RINGERLVL – Audible Ring Level

This command selects/reports the audible ring's level.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Signed Float	2	-12.00 – 4.00 dB (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RINGERLVL <Channel> [Value]

### RINGERSEL – Audible Ring Melody Selection

This command sends/reports the audible ring melody.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	1 – 3 (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RINGERSEL <Channel> [Value]

### RINGERTEST – Audible Ring Melody Test

This command plays the current audible ringer melody. This command is executable only. There is no query.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved	Unsigned Integer	2	0

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE RINGERTEST <Channel>

### SILENCEPRST – Silence Camera Preset

This command associates a camera preset with silence for voice tracking.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 to Clear 1 – 10 (NULL to Query in Text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE SILENCEPRST [Value]

### SPEEDDIAL – Speed Dialing

This command dials a speed dial number by speed dial number. There is no query for this command.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	1 – 33 34 for Conference

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE SPEEDDIAL <Channel> <Value>

### SPLEVEL – Speech Lift Level

This command selects/reports the level of speech lift for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Signed Integer	2	-18 – 0 dB (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE SPLEVEL <Channel> [Value]

### SPLIFT – Speech Lift Mode

This command selects/reports the status of the speech lift mode for a microphone.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	3 (M)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE SPLIFT <Channel> [Value]

### STEREOMIX – Sets the Input to be a Stereo Mix

This command enables / disables or reports the stereo mix status of an input.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	7 (L)
Value	Unsigned Integer	2	0 = On 1 = Off 2 = Toggle (NULL to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE STEREOMIX <Channel> [Value]

### SYSCHECKS – System Checks

Initiates the system checks. There is no query for this command.

#### ARGUMENT DETAILS

Name	Type	Size	Values
System Check	Hexadecimal	4	0 = Box 1 (mics A1-3) 1 = Box 2 (mics B1-3) 2 = Box 3 (mics C1-3) 3 = Speaker 4 = Telephone 5 = Network 6 = USB All other bits reserved.

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE SYSCHECKS <System Check>

## SYSRESULT – System Check Result

This command reports the results of the system check. This command is reportable only. It cannot be queried or set.

### ARGUMENT DETAILS

Name	Type	Size	Values
System Check	Hexadecimal	2	0 = Box 1 (mics A1-3) 1 = Box 2 (mics B1-3) 2 = Box 3 (mics C1-3) 3 = Speaker 4 = Telephone 5 = Network 6 = USB All other bits reserved.
Status	Unsigned Integer	2	0 = Fail 1 = Pass
Message	String	40	<p>For the Break Out Boxes: this message will say if a box is not connected.                      If a box is connected, the message will say which microphones fail. If none fail, the message will say that all microphones pass.</p> <p>For the speakers: the message will say if the speakers fail. If they, pass but are out of phase, the message will say they are out of phase. Otherwise, the message will say the speakers pass.</p> <p>For the telephone on hook: the message will report the line voltage, the line current, other results, and if dial tone is detected.                      For the telephone off hook: the message will report the line current, other results, and if dial tone is detected.                      The bit mask for the other results is                      xxxx xxxx                                       --&gt; set if switched from CTR21 to FCC because of low current                                       --&gt; set if used DIAL bit while dialing                                       --&gt; set if switch from Low Voltage to Japan because of current                                       --&gt; set if switch from Low Voltage to FCC because of current                               --&gt; DAA OVL status                             --&gt; DAA DOD status                         --&gt; DAA OPD status                       --&gt; Not used</p> <p>For the network check: the box will report if no IP address is set. If it is set, the box will ping the gateway. The message will say the ping failed if it is not returned in 5 seconds. Otherwise, the message will report how many seconds it took to return the ping.</p>

### TEXT FORM DETAILS

COMMAND FORM: DEVICE SYSRESULT <System Check> <Status> <Message>



### TCSM – Table Top Controller Sleep Mode

This command selects/reports the sleep mode for the RF Remote.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Off 1 = Timer 2 = On / Off Hook (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TCSM [Value]

### TCSTM – Table Top Controller Sleep Timer

This command sets or reports the time out for going to sleep on the RF controller.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	1 – 60 min (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TCSTM [Value]

### TE – Telco Enable

This command selects/reports the hook status.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TE <Channel> [Value]

### TELCOLVCTRL – Telco RX Level Control Enable/ Disable

This command selects/reports the setting of Telco RX level control.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	17, 27 (R, N)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TELCOLVCTRL <Channel> <Group> [Value]

## TELSET – Telephone Headset Set

This command sets the telephone headset brand.

### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Custom (HCONF sets parameters) 1 = Avaya 2400 Series 2 = Avaya 4600 Series 3 = Avaya 9600 Series 4 = Cisco 7900 Series 5 = Nortel 1100 Series 6 = Nortel 2000 Series 7 = NEC DT300 8 = NEC DT700 (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE TELSET [Value]

## TIMELOCALE – Time Locale Settings

This command sets or reports the time locale settings.

### ARGUMENT DETAILS

Name	Type	Size	Values
Daylight Savings	Unsigned Integer	4	0 = Do not use Daylight Savings 1 = Use Daylight Savings (NULL to Query in Text)
Time Zone	Unsigned Integer	4	The number of seconds from UDT. (-86400 – 86400)
Time Zone Name	String	32	Description of time zone

### TEXT FORM DETAILS

COMMAND FORM:

DEVICE TIMELOCALE [DaylightSavings TimeZone TimeZoneName]

## TLEC – Telco Line Echo Cancellation

This command selects/reports the status of the Telco line echo cancellation.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	17, 27 (R, N)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE TLEC <Channel> <Group> [Value]

### TM – Telco Mode (Telephone vs Headset)

This command selects/reports the Telco mode for the unit.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Unsigned Integer	4	0 = Telephone Jack 1 = Headset Jack (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TM [Value]

### TNLP – Telco Non-Linear Processing

This command selects/reports the status of the Telco line echo suppression.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Group	Group	1	17, 27 (R, N)
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE TNLP <Channel> <Group> [Value]

### UID – Unit ID

This command reports the unit id. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Hexadecimal	4	(Sent with a Null, value returned in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE UID [Value]

### VER – Version

This command reports the version of the unit. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	8	Version of format MM.mm.rr (Sent with a Null in text, value returned)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE VER [Value]

### VEREX – Firmware Version

This command reports the version of the InteractPRO8I unit. This command is read only.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	String	8	Version of format MM.mm.rr (Sent with a Null in text, value returned)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE VEREX [Value]

### VOLBUT – Volume Button

This command sets or reports the channel assigned to the volume button or command.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	2	See GroupAndChannels (Null to query in text)
Group	Group	2	2, 5 (O, P)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE VOLBUT [Channel Group]

### VOLUME – Volume Adjustment

This command changes or reports back the gain for the output channel set as the EC reference.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Value	Signed Float	4	-99.90 – 99.90 dB ** (Null to query in text)
Absol / Rel		0	A = Absolute R = Relative Null = Relative

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE VOLUME [Value] [Absol/Rel]

\*\* Note: Values indicate entry range only. Actual internal range of the gain stage is from -14.00 to 18.00 dB for the Interact AT and -65.00 to 20.00 dB for the Interact PRO. Absolute values will be limited to the internal gain range.

### ZDIAL – DTMF Dialing USB

This command dials a DTMF sequence or reports back the last sequence dialed.

#### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Reserved		2	0
Number	String	44	1 – 44 Chars of '0' – '9', 'A' – 'D', '*', '#', ',' (Null to query last number dialed in text)

#### TEXT FORM DETAILS

COMMAND FORM:DEVICE ZDIAL <Channel> [Number]

## ZRING – Ring Indication USB

This command indicates a ringing line. This command is reportable only. It cannot be queried or set.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Ring cycle has stopped 1 = Ring cycle has begun

### TEXT FORM DETAILS

COMMAND FORM:DEVICE ZRING <Channel> <Value>

## ZTE – Telco Enable USB

This command selects/reports the hook status.

### ARGUMENT DETAILS

Name	Type	Size	Values
Channel	Channel	1	See GroupAndChannels
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)

### TEXT FORM DETAILS

COMMAND FORM:DEVICE ZTE <Channel> [Value]

## Error Messages

The following lists possible error messages with their explanation:

Error #	Text Message	Explanation / Possible Solution
1	Memory error	The box is out of internal memory. Power cycle the box.
2	No command found	A command was not found in the string.
3	Unknown command response	A command was executed on a different device type that this box cannot display. The command dictionary needs to be updated.
4	Not implemented	The command is not implemented.
5	Argument error	The command had an argument that was out of range.
6	Unknown command	The command is not know to the box.
7	Bad Checksum	The binary command's checksum was wrong.
8	Camera Not Responding	The camera is not responding to the commands sent.
11	Command Too Big	The binary command is too large.

## DESIGNATIONS

The following tables define the relationship between alpha and numeric representations. Text commands use the alpha designation and binary commands use the numeric. In addition, different groups have different allowable channel ranges.

### Group and Channels

Group	Alpha	#	INTERACT AT Channel Range	INTERACT PRO Channel Range
Unknown	?	0	N/A	N/A
Outputs	O	2	1 – 3 1 is Record Out 2 is Line Out 3 is Speaker Out	1 – 8
Microphone	M	3	1 – 9	1 – 8 if no INTERACT Pro 8i 1 – 16 if INTERACT Pro 8i connected
Processing Channels	P	5	N/A	A - C
Line Inputs	L	7	1 – 2 1 is Record In 2 is Line In	1 – 2
Unit	U	9	0 for Unit Values 1 for Log	0 for Unit Values 1 for Log
Matrix	X	11	0	0
Phonebook	K	13	0	0
OS	A	15	2 for HTML skin 3 for Firmware 4 for Directory 5 for Firmware Data	2 for HTML skin 3 for Firmware 4 for Directory 5 for Firmware Data 6 for Interact Pro 8i Firmware 7 for Interact Pro 8i Directory 8 for Interact Pro 8i Firmware Data
Transmit	T	16	1	1
Receive	R	17	1	1
Local Camera	V	19	Sony Mode: 1 – 7 Canon Mode: 1 – 9	N/A
Virtual Reference	B	20	N/A	1-2
Preset	S	25	N/A	1 – 4
Headset Out (Microphone)	H	26	N/A	1
Headset In (Speaker)	N	27	N/A	1
USB Out	D	28	1	1
USB In	W	29	1	1

If a channel has a numeric value of 0xff or an alpha value of '\*', the command is to be applied to all channels. For example, a group value of 0x3 and a channel value of 0xff would mean that the command is to be applied to all channels of group 3 (Mic inputs).

### Interact AT Meter Type Definitions

Alpha	Numeric	Level position for Microphones	Level position for Line Inputs and Outputs	Level position for USB In, USB Out, Telco Receive & Telco Transmit
A	2	Level after processing	Level after PEQ and gain	Level after gain
R	5	Echo Return Loss	N/A	N/A
E	6	Echo Return Loss Enhancement	N/A	N/A
T	7	ERL + ERLE	N/A	N/A
B	12	Pre PEQ, Post Gain	N/A	N/A

### Interact PRO Meter Type Definitions

Alpha	Numeric	Level of Microphones	Level for Line Inputs, Outputs, USB In, USB Out, Headset In, Headset Out & Telco TX	Level for Telco RX	Level for Virtual Reference	Level for Processing Channels
I	1	Input	Input	Input		Input to compressor
A	2	After Gain	After Gain	After Gain	Output	Amount of Compression
N	3					Output Level
G	4	After Gate				
R	5	Echo Return Loss (Room Loss or ERL)		Echo Return Loss (ERL)		
E	6	Echo Return Loss Enhancement (ERLE)		Echo Return Loss Enhancement (ERLE)		
T	7	Total Echo Return Loss (ERL + ERLE)		Total Echo Return Loss (ERL + ERLE)		