



Command Line Interface API for the

RoboSHOT 30E-M

Software version 1.1.1

July 2026

NAME
 camera ccu get

SYNOPSIS
 camera ccu get <key>

DESCRIPTION
 Method used to get the ccu values of a connected camera

OPTIONS
 <key>
 all Gets all supported CCU information
 auto_white_balance Gets auto_white_balance
 red_gain Gets red gain value
 blue_gain Gets blue gain value
 backlight_compensation Gets backlight compensation
 auto_iris Gets auto_iris mode
 iris Gets iris value
 gain Gets gain value
 detail Gets detail value
 chroma Gets chroma value
 gamma Gets gamma value
 wide_dynamic_range Gets wide_dynamic_range

EXAMPLES
 camera ccu get iris
 Gets the iris value for the camera

 camera ccu get red_gain
 Gets the red_gain for the camera

NAME
 camera ccu scene

SYNOPSIS
 camera ccu scene recall { factory <1-6> | custom <1-3> }
 camera ccu scene store <1-3>

DESCRIPTION
 Method used to get or set the ccu scene

OPTIONS
 recall Recall a ccu scene
 store Store a custom ccu scene
 custom A custom scene (can be stored or recalled)
 factory A factory scene (can be recalled)

EXAMPLES
 camera ccu scene recall factory 2
 Recalls the factory scene 2 on the camera

NAME
 camera ccu set

SYNOPSIS
 camera ccu set <key> <value>

DESCRIPTION
 Method used to sets the ccu values

OPTIONS
 <key>
 auto_white_balance Sets auto white balance mode {on|off}
 red_gain Sets red gain value <0-255>
 blue_gain Sets blue gain value <0-255>
 backlight_compensation Sets backlight compensation mode {on|off}
 auto_iris Sets auto iris mode {on|off}
 iris Sets iris value <0-21>
 gain Sets gain value <1-11>
 detail Sets detail value <0-15>
 chroma Sets chroma value <0-14>

gamma Sets gamma value <-64-64>
wide_dynamic_range Sets wide dynamic range mode {on|off}

EXAMPLES

```
camera ccu set auto_iris off
Sets the auto_iris off on the camera
----
camera ccu set red_gain 10
Sets the red gain to be 10 on the camera
```

NAME

camera chained-preset

SYNOPSIS

```
camera chained-preset recall <1-16>
camera chained-preset stop
```

DESCRIPTION

Method used to recall preset chains

OPTIONS

```
recall              Recall a preset chain
stop                Stop a preset chain loop
```

EXAMPLES

```
camera chained-preset recall 3
Recall the set of presets stored as chain 3
camera chained-preset stop
Stop a running chained preset
```

NAME

camera focus

SYNOPSIS

```
camera focus { { near [<speed>] | far [<speed>] } | stop }
camera focus mode { get | auto | manual }
```

DESCRIPTION

Method used to focus the camera

OPTIONS

```
near                Move the camera focus near (with optional speed)
far                 Move the camera focus far (with optional speed)
stop                Stop the camera focus
mode                Get the current mode or set the it to auto or manual
speed               Optional integer from 1-8 that represents the speed
```

EXAMPLES

```
camera focus near
Focuses the camera near at the default speed
----
camera focus far 8
Focuses the camera far at a speed of 8
----
camera focus stop
Stops focus movement of the camera
----
camera focus mode get
Gets the focus mode
```

NAME

camera home

SYNOPSIS

```
camera home
```

DESCRIPTION

Method used to move the camera to home position

EXAMPLES

```
camera home
Move the camera to home position
```

NAME

camera led

SYNOPSIS

camera led get
camera led on
camera led off

DESCRIPTION

Method used to toggle the led on or off

OPTIONS

get Get status (on/off)
on Turn LED on
off Turn LED off

EXAMPLES

camera led on
Turn LED on.

camera led off
Turn LED off.

camera led get
Determine whether LED is on or off.

NAME

camera pan

SYNOPSIS

camera pan { left [<speed>] | right [<speed>] | stop }
camera pan get
camera pan set <position> [<speed>] [no_wait]

DESCRIPTION

Method used to pan the camera

OPTIONS

left Move the camera left
right Move the camera right
stop Stop the camera movement
get Get the absolute position
set Set the absolute position
position Pan position in degrees
speed Optional integer from 1-24 that represents the speed (Default:
 12)
no_wait Do not wait for camera movement to complete

EXAMPLES

camera pan left
Pans the camera left at the default speed

camera pan right 20
Pans the camera to the right at a speed of 20

camera pan stop
Stops the pan movement of the camera

camera pan set -45 20
Pan the camera to 45 degrees left of home at a speed of 20

camera pan set 30 no_wait
Pan the camera to 30 degrees right of home at a speed of 12,
and return immediately

NAME

camera preset

SYNOPSIS

```

    camera preset recall <1-16>
    camera preset store <1-16> [tri-sync <1-24>] [save-ccu]
DESCRIPTION
    Method used to recall and store camera presets
OPTIONS
    recall      Recall preset
    store       Store preset
    tri-sync    Tri-Sync recall speed
    save-ccu    Saves CCU information as well in the preset
EXAMPLES
    camera preset recall 3
    Move the camera to preset 3
    ----
    camera preset store 1
    Store current camera position as preset 1
    ----
    camera preset store 2 tri-sync 10 save-ccu
    Store current camera position and CCU settings as preset 2, will recall
    using tri-sync at speed 10
    ----
    camera preset store 4 tri-sync 15
    Store current camera position as preset 4, will recall using tri-sync at
    speed 15

```

NAME

```
camera ptz-position
```

SYNOPSIS

```

camera ptz-position get
camera ptz-position set [pan <pan-position> [<pan-speed>]]
                        [tilt <tilt-position> [<tilt-speed>]]
                        [zoom <zoom-position> [<zoom-speed>]]
                        [{ wait | no_wait }]

```

DESCRIPTION

Method used to pan, tilt, and zoom the camera

OPTIONS

```

get          Get the camera PTZ positions
set          Set the camera PTZ positions
pan          Set the camera pan position in degrees
tilt         Set the camera tilt position in degrees
zoom         Set the camera magnification
wait         Do not complete until camera arrives at position (Default)
no_wait      Complete immediately
pan-position Pan position
p-speed      Pan speed 1-24 (Default: 12)
tilt-position Tilt position
t-speed      Tilt speed 1-20 (Default: 10)
zoom-position Zoom magnification level
z-speed      Zoom speed 1-7 (Default: 3)

```

EXAMPLES

```

camera ptz-position set pan 35 tilt 25 zoom 5 no_wait
Pans the camera to 35 degrees, tilts to 25 degrees, and zooms to 5x,
returning when camera arrives
----
camera ptz-position set pan -35 20 tilt -5 18 zoom 10 7
Pans the camera to -35 degrees at speed 20, tilts to -5 degrees at speed
18, and zooms to 10x at speed 7, returning immediately
----
camera ptz-position get
Get the current pan, tilt, and zoom positions

```

NAME

```
camera sensor get
```

SYNOPSIS

camera sensor get

DESCRIPTION

Method used to get the camera sensor type

EXAMPLES

```
camera sensor get
So7100
```

NAME

camera tilt

SYNOPSIS

```
camera tilt { up [<speed>] | down [<speed>] | stop }
camera tilt get
camera tilt set <position> [<speed>] [no_wait]
```

DESCRIPTION

Method used to tilt the camera

OPTIONS

up	Move the camera up
down	Move the camera down
stop	Stop the camera movement
get	Get the absolute position
set	Set the absolute position
position	Tilt position in degrees
speed	Optional integer from 1-20 that represents the speed (Default: 10)
no_wait	Do not wait for camera movement to complete

EXAMPLES

```
camera tilt up
Tilts the camera up at the default speed
----
camera tilt down 20
Tilts the camera down at a speed of 20
----
camera tilt stop
Stops the tilt movement of the camera
----
camera tilt set 45
Tilt the camera to 45 degrees above home position at default speed
----
camera tilt set -10 5
Tilt the camera to 10 degrees down from home position at a speed of 5
----
camera tilt set 10 no_wait
Tilt the camera to 10 degrees up from home position at a speed of 10,
returning immediately
```

NAME

camera zoom

SYNOPSIS

```
camera zoom { in [<speed>] | out [<speed>] | stop }
camera zoom get
camera zoom set <magnification> [<speed>] [no_wait]
```

DESCRIPTION

Method used to zoom the camera

OPTIONS

in	Zoom in
out	Zoom out
stop	Stop the camera movement
get	Get the current magnification level
set	Set the current magnification level
speed	Optional integer from 1-7 for designating speed (Default: 3)
no_wait	Do not wait for camera movement to complete

EXAMPLES

```
camera zoom in
```

```
Zooms the camera in at the default speed
----
camera zoom out 7
Zooms the camera out at a speed of 7
----
camera zoom stop
Stops zoom movement of the camera
----
camera zoom get
Get magnification level
----
camera zoom set 3
Set current magnification level to 3x magnification at speed 3
----
camera zoom set 4 5 no_wait
Set current magnification level to 3x magnification at speed 5,
returning immediately
```

```
NAME
    info all
SYNOPSIS
    info all get
DESCRIPTION
    Gets all the data from info
OPTIONS
    get      Get all the data from info
EXAMPLES
    info all get
    Product      GenericTHING
    Company Name Vaddio
    Room Name    Rick's cubicle
    Room Phone Number (248) 434-5508
    Help Phone Number (763) 971-4428
```

```
NAME
    info product
SYNOPSIS
    info product get
DESCRIPTION
    Gets the product name
OPTIONS
    get      Get the product name
EXAMPLES
    info product get
    Product GenericTHING
```

```
NAME
    info roomlabels
SYNOPSIS
    info roomlabels get
DESCRIPTION
    Gets all the user set room labels
OPTIONS
    get      Get the user set room labels
EXAMPLES
    info roomlabels get
    Company Name Vaddio
    Room Name    Rick's cubicle
    Room Phone Number (248) 434-5508
    Help Phone Number (763) 971-4428
```

NAME

monitor buttons

SYNOPSIS

monitor buttons

DESCRIPTION

Turns on input button monitoring. (Use Ctrl-C to exit).

EXAMPLES

monitor buttons

(When a button is pressed, a message will appear: <button name> pressed)

NAME

network ping

SYNOPSIS

network ping [count <count>] [size <size>] <destination-ip>

DESCRIPTION

Use the ICMP protocol's mandatory ECHO_REQUEST datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway. ECHO_REQUEST datagrams have an IP and ICMP header, followed by a struct timeval and then an arbitrary number of pad bytes used to fill out the packet.

OPTIONS

count Stop after sending count ECHO_REQUEST packets. With
deadline option, ping waits for count ECHO_REPLY packets, until the
 timeout expires.
 The default is 5.
destination The destination IP address where the ECHO_REQUESTS are
 sent
size The data size of the ICMP packet to send. The default is
 56 bytes

EXAMPLES

network ping 192.168.1.1

Attempt to send 5 ICMP ECHO_REQUESTs with data size 56 to the host at
192.168.1.1

network ping count 10 size 100 192.168.1.1

Attempt to send 10 ICMP ECHO_REQUESTs with data size of 100 to the host at
192.168.1.1

NAME

network settings

SYNOPSIS

network settings { get }

DESCRIPTION

Method used to get the current network settings of the device

OPTIONS

get Get the current network settings for the machine

EXAMPLES

network settings get

MAC Address: 00:04:a3:85:0a:ee

IP Address: 10.10.8.116

Netmask: 255.255.255.0

Gateway: 10.10.8.100

Returns the current network settings for mac address, ip address, netmask,
and gateway

NAME

sleep

SYNOPSIS
 sleep <duration>
 DESCRIPTION
 Method used to pause for a period of time (in milliseconds).
 OPTIONS
 <duration> Positive integer of milliseconds to wait (1-10000)
 EXAMPLES
 sleep 700
 Waits for 700 milliseconds before returning

NAME
 streaming settings
 SYNOPSIS
 streaming settings get
 DESCRIPTION
 Method used to get the current streaming settings
 OPTIONS
 get Get the current streaming settings
 EXAMPLES
 streaming settings get
 USB Active false
 USB Device RoboSHOT-M
 USB Resolution 0x0
 USB Enumeration Speed 0
 UVC Extensions Enabled true
 Gets the current streaming settings

NAME
 system factory-reset
 SYNOPSIS
 system factory-reset { get | on | off }
 DESCRIPTION
 Method used to get or set the factory reset status.
 OPTIONS
 get Get the current factory reset status
 on Enable factory reset on reboot
 off Disable factory reset on reboot
 EXAMPLES
 system factory-reset get
 factory-reset (software): off
 factory-reset (hardware): off
 Returns the factory reset status

 system factory-reset on
 factory-reset (software): on
 factory-reset (hardware): off
 Enables factory reset upon reboot

NAME
 system reboot
 SYNOPSIS
 system reboot [<seconds>]
 DESCRIPTION
 Method used to reboot system
 OPTIONS
 seconds The number of seconds to delay the reboot
 EXAMPLES
 reboot
 Reboot system immediately

```
reboot 30
Reboot the system in 30 seconds
```

NAME

```
system standby
```

SYNOPSIS

```
system standby { get | on | off | toggle }
```

DESCRIPTION

Method used to put the system in and out of standby

OPTIONS

```
get          get the state of the system standby mode
on           put the system into standby mode
off          put the system out of standby mode
toggle       switches the standby mode state
```

EXAMPLES

```
system standby get
Gets the system standby state
-----
system standby on
Activates the system standby
-----
system standby off
Takes the system out of standby
-----
system standby toggle
Cameras in standby leave it. Cameras out of standby go into it.
```

NAME

```
version
```

SYNOPSIS

```
version
```

DESCRIPTION

Method used to display version information

EXAMPLES

```
version
Returns the current software version
```

NAME

```
video mute
```

SYNOPSIS

```
video mute { get | on | off | toggle }
```

DESCRIPTION

Method used to get or set video mute

OPTIONS

```
get          Get the current video mute
on           Set video mute to on
off          Set video mute to off
toggle       Toggle the video mute
```

EXAMPLES

```
video mute get
Get current video mute setting
-----
video mute toggle
Toggles the current video mute setting
-----
video mute on
Mutes video
-----
video mute off
Unmutes video
```

NAME

video osd

SYNOPSIS

video osd { get | on | off }

DESCRIPTION

Method used to get or set on screen display

OPTIONS

get	Get's whether OSD is on or off
on	Set OSD to on
off	Set OSD to off

EXAMPLES

```
video osd get
Get whether OSD is on or off
----
video osd on
turns on the on screen display
----
video osd off
turns off the on screen display
```

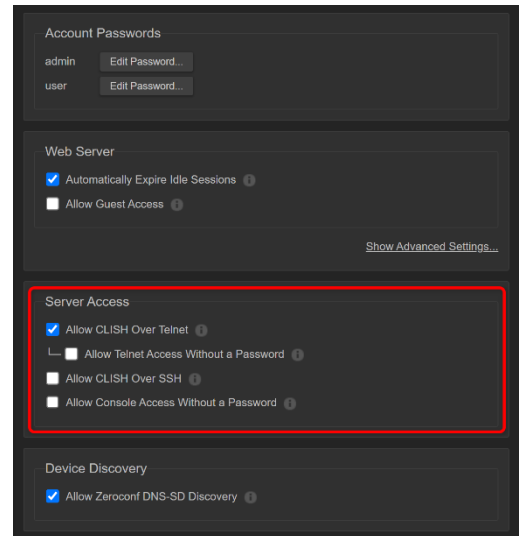
Command Line Interface SHell (CLISH) API reference

Requirements

- SSH (recommended) or Telnet must be enabled on the Security page of the device's web interface.
- Your computer or third-party control system must have a suitable SSH or Telnet client.
- Your computer or third-party control system must be able to connect to the device over the network.

When you start a CLISH session, you must log in using the admin account.

For a Telnet connection (or if the device supports it, for the serial console) the authentication requirement can be disabled.



Usage notes

- In addition to the control commands, session management commands are available – help, history, and exit.
- CTRL-5 clears the current serial buffer on the device.

Getting more information

Use a question mark as a command or command parameter to display a list of available commands, subcommands, or command parameters.

For example, `?` returns all top-level commands; **network ?** returns the valid subcommands for the network command; and **network ping ?** returns the parameters available for the network ping command.

Firmware updates sometimes implement new command parameters. Make sure to reference the latest version of this document to get the current list of supported commands.

Typographical conventions

- `{ x | y | z }` – Choose x, y, or z.
- `<variable>` – The named variable (such as `<ip address>`) is required.
- `< x..y >` – A value in the range of x through y is required.
- `[parameter]` – The parameter (such as `[speed]`) is optional.

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