

**Command interface
i-PRO Security Radar**

i-PRO Co., Ltd.

Revise Record

| VER. | Date | Chapter. | Description |
|------|------------------|----------|--|
| 1.00 | December 24,2025 | - | Initial release |
| 1.01 | April 17,2026 | - | Documentation revisions resulting from the upgrade of the Security radar system. |
| | | | |

1. Introduction

This document is i-PRO Security Radar command interface specification.

For the command interface of network cameras not described in this manual, refer to the following.

■ CGI Command Interface Specification Network Camera

https://i-pro.com/products_and_solutions/en/surveillance/learning-and-support/device-integration/i-pro-cgi

1.1. Security Radar CGI compatibility check

Send the following CGI from browsers such as Chrome and caminfo.html displayed corresponds to the following items.

■ How to check

Step 1: Send "<http://192.168.0.10/cgi-bin/getinfo?FILE=1>" to Security Radar. (※1)

step 2: On the contents of the displayed response

NAME=WV-RD5500-C or NAME=WV-RD5500-CE

Is displayed.

※1 Change IP address according to your Security Radar.

Specifications for Enhanced Security

When CGI is sent from browsers such as Chrome, Security Radar may return an error (400 Bad request) (it does not operate normally).

This operation is a specification for enhanced security.

If the above operation occurs in your CGI, it may be resolved by using one of the following methods.

■ Methods ①

Do not give Accept headers to CGI (HTTP requests).

■ Methods ②

Step 1: Send http://192.168.0.10/cgi-bin/get_randomnum to Security Radar. (※1)

Step 2: Check the parameters that Security Radar responds to in Step 1.

Sample Reply: randomnum=8C53C75B9462F1D8

Step 3: Add the parameter "Randomnum" to the end of your CGI and send it. (※2)(※3)

[Command example]

Image capture mode Setup

http://192.168.0.10/cgi-bin/set_imgmode?img_mode=2m&imgratio=16_9&Randomnum=8C53C75B9462F1D8

※1 Change IP address according to your Security Radar.

※2 The value specified in the parameter "Randomnum" is the value of "randomnum" obtained in step 2.

※3 "randomnum" is changed periodically. Repeat step 1 to acquire the data each time you use the product.

2. Radar setup

2.1. Basic radar setup

[URL] /cgi-bin/set_radar?[<Parameter name>=<value>]

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|-----------------|---|--|
| radar_unit | meters, feet | Unit setup of radar Meters: Metric Feet: Feet | RADAR_UNIT |
| radar_transmit | 0, 1 | Radar Outbound Setup 0:OFF 1:ON | RADAR_TRANSMIT |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|--------------------|--|--|--|
| radar_level | low, mid, High | Detection sensitivity Low: Unresponsive Mid: Sensitivity medium High: Sensitive | RADAR_LEVEL |
| radar_filter *1 | off, human, vehicle | Detection filter setup Off: None Human: Person first Vehicle: Car prioritized | RADAR_FILTER |
| fluctuation_filter | off, low, mid, high | Fluctuation filter intensity Off: No removal Low: Degree to remove is low Mid: The degree of removal is medium. High: High degree of removal | FLUCTUATION_FILTER |
| radar_ch | ch1 ch2 ch3 ch4 ch5 ch6 | Radar-based ch Ch1: Channel 1 Ch2: Channel 2 Ch3: Channel 3 Ch4: Channel 4 Ch5: Channel 5 Ch6: Channel 6 | RADAR_CH |
| radar_color | gray, white | Radar screen background color Gray: Gray White: White | RADAR_COLOR |
| radar_transparent | 0, 30, 40, 50, 60, 70, 80, 90 | Transparency of the radar screen 0: Off (no transparency) 30~90:30~90% | RADAR_TRANSPARENT |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|-----------------------|--|---|--|
| radar_trajectory | 0, 3s, 5s, 10s, 20s, 30s, 1m, 2m, 1h, 24h | Show Track History 0:Off 3s/5s/10s/20s/30s/1m/2m/1h/24h: Displays the specified time-trajectory. | RADAR_TRAJECTORY |
| radar_pointcloud | 0, 1 | Point group data display 0:Off 1:On | RADAR_POINTCLOUD |
| display_size | small, middle, large | Icon/Font Size Small: Small Middle: Medium Large: Large | DISPLAY_SIZE |
| disp_objtype | 0, 1 | Display of object type 0:Off 1:On | DISP_OBJTYPE |
| disp_objspeed | 0, 1 | Display of movement speed 0:Off 1:On | DISP_OBJSPEED |
| monitoring_mode *2 | wide, boundary | Monitoring Mode Settings wide : Wide Area Monitoring Mode boundary : Boundary Monitoring Mode | monitoring _mode |

*1 When the monitoring mode is set to "Boundary Monitoring Mode," the detection filter cannot be set to "Vehicle Priority.

*2 When the detection filter is set to "Vehicle Priority," the monitoring mode cannot be set to "Boundary Monitoring Mode.

[Command example]

Turn ON Radar dialing.

http://192.168.0.10/set_radar?radar_transmit=1

2.2. PTZ status indication

[URL] /cgi-bin/getinfo?[<Parameter name>]

[Method]] GET/POST

[Access level] 1

| Parameter name | value | Comments |
|----------------|--|--|
| connect_status | CAMx,"CONNECTED(/UNCONNECTED)" *x is a number | CAMx: Camera CONNECTED: Connected UNCONNECTED: Not connected, Not registered |

[When Security Radar is not connected to PTZ 1, PTZ 3 is connected, PTZ 2 and PTZ 4 is not connected (such as not connected or not registered)]

http://192.168.0.10/cgi-bin/getinfo?connect_status

Response

HTTP/1.1 200 OK

Content-Type:text/plain

Content-Length:xxx

CAM1,"CONNECTED"

CAM2,"UNCONNECTED"

CAM3,"CONNECTED"

CAM4,"UNCONNECTED"

2.3. Important point

[URL] /cgi-bin/set_radar?[<Parameter name>=<value>]

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|---------------------|---------------------|---|--|
| multi_obj_tracking | 0, 1, 2, 3 | Operating Mode When Tracking Multiple Objects 0:First priority 1:Later priority 2:Prioritize key points 3:Take everyone in sequence | MULTI_OBJ_TRACKING |
| track_in_order_time | 1 - 99 | Operation mode when tracking multiple objects (tracking time) 1-99s (seconds) | TRACK_IN_ORDER_TIME |
| Important_pointpx | 0 - 1919 | X coordinate of the critical point 0 - 1919 | IMPORTANT_POINTPX |
| Important_pointpy | 0 - 1079 | Y coordinate of the critical point 0 - 1079 | IMPORTANT_POINTPY |

[Command example]

When capturing a sequence of five seconds of everyone in a multi-object tracking operation
http://192.168.0.10/set_radar?multi_obj_tracking=3&track_in_order_time=5

2.4. PTZ camera-control method

[URL] /cgi-bin/set_radar? [<Parameter name>=<value>]

[Method] GET/POST

[Access level]1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|-------|---|--|
| ptz1_attrack | 0,1 | Auto-tracking function of PTZ Camera 1 0: Auto track priority , 1: Radar control only | PTZ1_ATTRACK |
| ptz2_attrack | 0,1 | Auto-tracking function of PTZ Camera 2 0: Auto track priority , 1: Radar control only | PTZ2_ATTRACK |
| ptz3_attrack | 0,1 | Auto-tracking function of PTZ Camera 3 0: Auto track priority , 1: Radar control only | PTZ3_ATTRACK |
| ptz4_attrack | 0,1 | Auto-tracking function of PTZ Camera 4 0: Auto track priority , 1: Radar control only | PTZ4_ATTRACK |

[Command example]

When changing the PTZ control method of PTZ 3 to "Radar control only"

http://192.168.0.10/set_radar?ptz3_attrack=1

3. Video Streaming

3.1. H.264/H.265 Setup

3.1.1. Stream 1-Radar

[URL] /cgi-bin/setdata?[<Parameter name>=<value>]

[Method] POST

[Access level] 1

| Parameter name | value | Comments | Parameter corresponding to the setup CGI (/cgi-bin/getdata) |
|-----------------|---------|--|---|
| h264mlttl_radar | 1 - 254 | Multicast TTL/HOPLimit (Radar) 1 -254 | H264MLTTL_RADAR |

3.1.2. Stream 2-Radar

[Stream(2)]

[URL] /cgi-bin/setdata?[<Parameter name>=<value>]

[Method] GET/POST

[Access level] 1

| Parameter name | Parameter value | Parameter corresponding to the setup CGI (/cgi-bin/getdata) |
|-------------------|-----------------|---|
| h264mlttl_radar_2 | See Stream 1 | H264MLTTL_RADAR_2 |

3.2. H.264/H.265 Frame Rate, Picture Quality, Bit Rate, and Image capture size

Setup (Don't Stop Delivery)

[Important]

This CGI cannot be used when the specified stream is set to "Best Effort Mode" or Record Stream. The camcorder returns an 403 Forbidden.

3.2.1. Stream 1

[URL] /cgi-bin/setdata? [<Parameter name>=<value>]

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | Parameter corresponding to the setup CGI (/cgi-bin/getdata) |
|------------------|--|---|---|
| nrh264bwc_radar | 64, 128, 256, 384, 512, 768, 1024, 1536, 2048, 3072, 4096, 6144, 8192, 10240, 12288, 14336, 16384, 20480, 24576, F_4096, F_unlimited | Bit rate per H.264 /H.265 1 client (radar) 64:64kbps, 128:128kbps, 256kbps,256 384kbps,384 512kbps,512 768:768kbps, 1024:1024kbps, 1536:1536kbps, 2048:2048kbps, 3072:3072kbps, 4096:4096kbps, 6144:6144kbps, 8192:8192kbps, 10240:10240kbps, 12288:12288kbps, 14336:14336kbps, 16384:16384kbps, 20480:20480kbps, 24576:24576kbps, F_4096:F_4096kbps, F_unlimited: Unlimited | NRH264BWC_RADAR |
| nrh264size_radar | 320 640 1280 1920 | H.264 /H.265 Image capture size (radar) (16:9) 320: 320x180 640: 640x360 1280: 1280x720 1920: 1920x1080 | NRH264SIZE_RADAR |

| Parameter name | value | Comments | Parameter corresponding to the setup CGI (/cgi-bin/getdata) |
|------------------|--|---|---|
| nrh264qual_radar | fine, normal, low 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 | H.264 /H.265 image quality (radar) fine: Fine normal: Normal low: Low Hereinafter, for VBR 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 | NRH264QUAL_RADAR |

[Command example]

Dynamically changes the bitrate of Stream 1 to 4096kbps.

http://192.168.0.10/cgi-bin/setdata?NRH264BWC_RADAR=4096

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3.2.2. Streams 2

[Stream 2]

[URL] /cgi-bin/setdata?[<Parameter name>=<value>]

[Method] POST

[Access level] 1

| Parameter name | value | Parameters corresponding to CGI for obtaining setpoints (/cgi-bin/getdata) |
|--------------------|--------------|--|
| nrh264bwc_radar_2 | See Stream 1 | NRH264BWC_RADAR_2 |
| nrh264size_radar_2 | See Stream 1 | NRH264SIZE_RADAR_2 |
| nrh264qual_radar_2 | See Stream 1 | NRH264QUAL_RADAR_2 |

3.3. JPEG Setup

3.3.1. JPEG Setup

[URL] /cgi-bin/setdata? [<Parameter name>=<value>]

[Method] POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Corresponding parameter (/cgi-bin/getdata) |
|----------------|---|---|---|
| livesize_radar | 320, 640, 1280, 1920 | JPEG Image capture size (Radar) (16:9) 320 : 320 x 180 640 : 640 x 360 1280 : 1280 x 720 1920 : 1920 x 1080 | LIVESIZE_RADAR |
| livequal_radar | 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, superfine, fine, normal, low | JPEG image quality (radar) 0 :Highest quality 1 :Optimum quality 2, 3, 4, 5 :Standard 6, 7, 8, 9 :Low image quality Superfine: Same quality as 0 Fine: Same quality as 1 Normal: Same quality as 5 Low: Same image quality as 9 | LIVEQUAL_RADAR |

※Image capture size and quality Setup are reflected in JPEG video streaming and JPEG snapshots.

[Command example]

Turn 640 x 360 Radar JPEG Image capture size.

http://192.168.0.10/cgi-bin/setdata?livesize_radar=640

4. Alarm

4.1. Input/output terminal

4.1.1. Terminal setup (Radar Self check)

[URL] /cgi-bin/jpeg_alarm?[<Parameter name>=<value>]

[Method] POST

[Access level] 1

| Parameter name | value | Comments | Parameter corresponding to the setup CGI (/cgi-bin/getdata) |
|----------------|-----------------------------------|--|---|
| trm_alarm | 0, 1, 4, 9, 10, 11 | Terminal 1 setup 0:Terminal alarm OFF 1:Terminal alarm ALARM IN 4:Black-and-white terminal BLACK_WHITE 9:Switching PAL of the monitor-output 10:Automatic time adjustment 11:Start radar self-diagnosis | ATRMIN |
| trm_alarm3 | 0, 1, 2, 3, 11 | Terminal 3 setup 0:OFF 1:Terminal alarm ALARM IN 2:Terminal alarm ALARM OUT 3:Terminal alarm AUX OUT 11:Radar self-diagnosis result output (*Cannot be set) | ATRMIN3 |

[Command example]

Starting Radar Self-Test

http://192.168.0.10/cgi-bin/jpeg_alarm?trm_alarm=11

※When the above CGI is entered, terminal 3 is automatically set to [Radar Self check Output].

Radar self-diagnosis cannot be set with http://192.168.0.10/cgi-bin/jpeg_alarm?trm_alarm=11

, but when terminal 1 is set to "11: Radar self-diagnosis start", when

<http://192.168.0.10/cgi-bin/getdata> is performed, "ATRMIN3=11" is displayed.

4.2. Angle error detection

4.2.1. Angle error detection

[URL] /cgi-bin/set_g_almangle? [<Parameter name>=<value>]

[Method] POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Corresponding parameter (/cgi-bin/getdata) |
|--------------------|---------------|--|---|
| initial_posi | set, reset | Save angle of view Set: Save Default Angle Reset: Clear Default Angle of View (Reset to Default) | 4.2.2 |
| g_almangle_display | 1, 0 | View angle 1: Be displayed 0: Not display | - |

[Command example]

Register the angle of view after installing Security Radar.

http://192.168.0.10/cgi-bin/set_g_almangle?initial_posi=sed

4.2.2. Get current setup

CGI: /cgi-bin/getdata

| Value | Comments |
|------------------|---|
| g_pitch | Pitch angle taken from the g-sensor |
| g_pitch_raw | g is pitch (x) from the reader |
| g_init_pitch | Pitch angle registered |
| g_almangle_pitch | Threshold value of the pitch angle at which abnormality is detected when an installation angle abnormality occurs |

※Security Radar only monitors the pitch-angle.

4.3. Radar detection setup

4.3.1. Radar detection setup

[URL] /cgi-bin/set_radar

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|---------------------|--|--|--|
| radar_alm_frequency | 0, 1 | Radar detection alarm 0: Alert only when first time detection 1: Alarm sounds every time it is detected | RADAR_ALM_FREQUENCY |
| speed_low | 1km - 65km 1mi - 40mi | Movement speed (low) (km/h)1 - 65 (mi/h)1 - 40 | SPEED_LOW |
| speed_high | 1km - 65km 1mi - 40mi | Movement speed (high) (km/h)1 - 65 (mi/h)1 - 40 | SPEED_HIGH |
| travel_distance | 0m - 99m 0ft - 325ft | Travel distance (m)0 - 99 (ft)0 - 325 | TRAVEL_DISTANCE |
| intruder_time | 2, 4, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 | Intrusion detection time 2:0.2s 4:0.4s 10:1s 20:2s 30:3s 40:4s 50:5s 60:6s 70:7s 80:8s 90:9s 100:10s | INTRUDER_TIME |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|--------------------|--|---|--|
| loitering_time | 10, 20, 30, 60, 120, 300, 600 | Dwell detection time 10:10s 20:20s 30:30s 60:1min 120:2min 300:5min 600:10min | LOITERING_TIME |
| line_time | 2, 4, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 | Line cross detection time 2:0.2s 4:0.4s 10:1s 20:2s 30:3s 40:4s 50:5s 60:6s 70:7s 80:8s 90:9s 100:10s | LINE_TIME |
| geolocation_switch | 0, 1 | Latitude/longitude information transmission setup 0:Disabled 1:Enabled | GEOLOCATION_SWITCH |

[Command example]

Set to activate the alarm every time the radar is detected.

http://192.168.0.10/cgi-bin/set_radar?radar_alm_frequency=1

4.3.2. Alarm detection area setup

[URL] /cgi-bin/set_radar

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| det_fig1 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in alarm detection area 1 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG1 |
| det_fig2 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in alarm detection area 2 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG2 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| det_fig3 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of alarm detection area 3 polygons 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG3 |
| det_fig4 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in alarm detection area 4 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG4 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|--|--|
| det_fig5 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the alarm detection area 5 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG5 |
| det_fig6 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the alarm detection area 6 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG6 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|--|--|
| det_fig7 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the alarm detection area 7 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG7 |
| det_fig8 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the alarm detection area 8 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | DET_FIG8 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| mask_fig1 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 1 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG1 |
| mask_fig2 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 2 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG2 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| mask_fig3 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 3 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG3 |
| mask_fig4 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 4 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG4 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| mask_fig5 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 5 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG5 |
| mask_fig6 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 6 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG6 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| mask_fig7 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 7 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG7 |
| mask_fig8 | 0, 1 + (0 - F) + (0000 - 1919 +0000 - 1079) x up to 16 | Shape, number of vertices, and vertex coordinate information of the polygon in the radar detection mask area 8 0:Polygon 1:Line (0-F): Number of vertices (1-16) (0000 to 1919 + 0000 to 1079) x 16 max.: X coordinate + Y coordinate up to 16 vertices | MASK_FIG8 |
| det_fig1_human | 0, 1 | Detection Object 1: Person 0:Off 1:On | DET_FIG1_HUMAN |
| det_fig2_human | 0, 1 | Detection Object 2: Person 0:Off 1:On | DET_FIG2_HUMAN |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|------------------|---------|---|--|
| det_fig3_human | 0, 1 | Detection Object 3: Person 0:Off 1:On | DET_FIG3_HUMAN |
| det_fig4_human | 0, 1 | Detection Object 4: Person 0:Off 1:On | DET_FIG4_HUMAN |
| det_fig5_human | 0, 1 | Detection Object 5: Person 0:Off 1:On | DET_FIG5_HUMAN |
| det_fig6_human | 0, 1 | Detection Object 6: Person 0:Off 1:On | DET_FIG6_HUMAN |
| det_fig7_human | 0, 1 | Detection Object 7: Person 0:Off 1:On | DET_FIG7_HUMAN |
| det_fig8_human | 0, 1 | Detection Object 8: Person 0:Off 1:On | DET_FIG8_HUMAN |
| det_fig1_vehicle | 0, 1 | Detection Object 1: Car 0:Off 1:On | DET_FIG1_VEHICLE |
| det_fig2_vehicle | 0, 1 | Detection Object 2: Car 0:Off 1:On | DET_FIG2_VEHICLE |
| det_fig3_vehicle | 0, 1 | Detection Object 3: Car 0:Off 1:On | DET_FIG3_VEHICLE |
| det_fig4_vehicle | 0, 1 | Detection Object 4: Car 0:Off 1:On | DET_FIG4_VEHICLE |
| det_fig5_vehicle | 0, 1 | Detection Object 5: Car 0:Off 1:On | DET_FIG5_VEHICLE |
| det_fig6_vehicle | 0, 1 | Detection Object 6: Car 0:Off 1:On | DET_FIG6_VEHICLE |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|------------------|-------|---|--|
| det_fig7_vehicle | 0, 1 | Detection Object 7: Car 0:Off 1:On | DET_FIG7_VEHICLE |
| det_fig8_vehicle | 0, 1 | Detection Object 8: Car 0:Off 1:On | DET_FIG8_VEHICLE |
| det_fig1_unknown | 0, 1 | Detection object 1: Unknown 0:Off 1:On | DET_FIG1_UNKNOWN |
| det_fig2_unknown | 0, 1 | Detection object 2: Unknown 0:Off 1:On | DET_FIG2_UNKNOWN |
| det_fig3_unknown | 0, 1 | Detection object 3: Unknown 0:Off 1:On | DET_FIG3_NKNOWN |
| det_fig4_unknown | 0, 1 | Detection Object 4: Unknown 0:Off 1:On | DET_FIG4_UNKNOWN |
| det_fig5_unknown | 0, 1 | Detection Object 5: Unknown 0:Off 1:On | DET_FIG5_UNKNOWN |
| det_fig6_unknown | 0, 1 | Detection object 6: Unknown 0:Off 1:On | DET_FIG6_UNKNOWN |
| det_fig7_unknown | 0, 1 | Detected object 7: Unknown 0:Off 1:On | DET_FIG7_UNKNOWN |
| det_fig8_unknown | 0, 1 | Detection Object 8: Unknown 0:Off 1:On | DET_FIG8_UNKNOWN |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| det_fig1_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 1 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG1_MODE |
| det_fig2_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 2 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG2_MODE |
| det_fig3_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 3 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG3_MODE |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| det_fig4_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 4 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG4_MODE |
| det_fig5_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 5 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG5_MODE |
| det_fig6_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 6 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG6_MODE |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---|---|--|
| det_fig7_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 7 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG7_MODE |
| det_fig8_mode | 00000000, 00000001, 00000010, 00010000 | Polygon detection mode of detection area 8 00000000:Not used 00000001:Intrusion detection 00000010:Dwell detection 00010000:Line cross detection ※Only one detection mode can be selected. | DET_FIG8_MODE |
| det_fig1_line | 1, 2, 3 | Line 1 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG1_LINE |
| det_fig2_line | 1, 2, 3 | Line 2 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG2_LINE |
| det_fig3_line | 1, 2, 3 | Line 3 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG3_LINE |
| det_fig4_line | 1, 2, 3 | Line 4 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG4_LINE |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---------------|---|--|
| det_fig5_line | 1, 2, 3 | Line 5 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG5_LINE |
| det_fig6_line | 1, 2, 3 | Line 6 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG6_LINE |
| det_fig7_line | 1, 2, 3 | Line 7 direction specification 1:A -> B 2:A <- B 3:A <-> B | DET_FIG7_LINE |
| det_fig8_line | 1, 2, 3 | Line 8 direction 1:A -> B 2:A <- B 3:A <-> B | DET_FIG8_LINE |
| det_fig1_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 1) 0:Off 1;On | DET_FIG1_PTZ1 |
| det_fig2_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 2) 0:Off 1;On | DET_FIG2_PTZ1 |
| det_fig3_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 3) 0:Off 1;On | DET_FIG3_PTZ1 |
| det_fig4_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 4) 0:Off 1;On | DET_FIG4_PTZ1 |
| det_fig5_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 5) 0:Off 1;On | DET_FIG5_PTZ1 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---------|--|--|
| det_fig6_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 6) 0:Off 1;On | DET_FIG6_PTZ1 |
| det_fig7_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 7) 0:Off 1;On | DET_FIG7_PTZ1 |
| det_fig8_ptz1 | 0, 1 | Tracking enabled/disabled for PTZ camera 1 (Area 8) 0:Off 1;On | DET_FIG8_PTZ1 |
| det_fig1_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 1) 0:Off 1;On | DET_FIG1_PTZ2 |
| det_fig2_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 2) 0:Off 1;On | DET_FIG2_PTZ2 |
| det_fig3_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 3) 0:Off 1;On | DET_FIG3_PTZ2 |
| det_fig4_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 4) 0:Off 1;On | DET_FIG4_PTZ2 |
| det_fig5_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 5) 0:Off 1;On | DET_FIG5_PTZ2 |
| det_fig6_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 6) 0:Off 1;On | DET_FIG6_PTZ2 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---------|--|--|
| det_fig7_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 7) 0:Off 1;On | DET_FIG7_PTZ2 |
| det_fig8_ptz2 | 0, 1 | Tracking enabled/disabled for PTZ camera 2 (Area 8) 0:Off 1;On | DET_FIG8_PTZ2 |
| det_fig1_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ camera 3 (Area 1) 0:Off 1;On | DET_FIG1_PTZ3 |
| det_fig2_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ camera 3 (Area 2) 0:Off 1;On | DET_FIG2_PTZ3 |
| det_fig3_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ Camera-3 (Area-3) 0:Off 1;On | DET_FIG3_PTZ3 |
| det_fig4_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ camera 3 (Area 4) 0:Off 1;On | DET_FIG4_PTZ3 |
| det_fig5_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ Camera-3 (Area-5) 0:Off 1;On | DET_FIG5_PTZ3 |
| det_fig6_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ camera 3 (Area 6) 0:Off 1;On | DET_FIG6_PTZ3 |
| det_fig7_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ Camera-3 (Area-7) 0:Off 1;On | DET_FIG7_PTZ3 |

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|---------|--|--|
| det_fig8_ptz3 | 0, 1 | Tracking enabled/disabled for PTZ Camera-3 (Area-8) 0:Off 1;On | DET_FIG8_PTZ3 |
| det_fig1_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 1) 0:Off 1;On | DET_FIG1_PTZ4 |
| det_fig2_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 2) 0:Off 1;On | DET_FIG2_PTZ4 |
| det_fig3_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 3) 0:Off 1;On | DET_FIG3_PTZ4 |
| det_fig4_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 4) 0:Off 1;On | DET_FIG4_PTZ4 |
| det_fig5_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 5) 0:Off 1;On | DET_FIG5_PTZ4 |
| det_fig6_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 6) 0:Off 1;On | DET_FIG6_PTZ4 |
| det_fig7_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 7) 0:Off 1;On | DET_FIG7_PTZ4 |
| det_fig8_ptz4 | 0, 1 | Tracking enabled/disabled for PTZ camera 4 (Area 8) 0:Off 1;On | DET_FIG8_PTZ4 |

[Command example]

Alarm detection area 1 full screen

alarm detection area 1 in full screen (X=0000Y=0000), (X=1919Y=0000),
(X=1919Y=1079), (X=0000Y=1079)

※ Polygons: (0) 4 vertices: (3) Each coordinate: (0000 0000) (1919 0000) (1919 1079) (0000 1079)

[HTTP://192.168.0.10/cgi-bin/set_radar?det_fig1=0300000000191900001919107900001079](http://192.168.0.10/cgi-bin/set_radar?det_fig1=0300000000191900001919107900001079)

4.3.3. Latitude/longitude setup

[URL] /cgi-bin/set_radar

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|--------------------|--------------------------|---|--|
| camera_latitude | -900000000 - 900000000 | Radar installation position (latitude) -900000000 (Latitude South 90deg) 900000000(90deg of North Latitude) | CAMERA_LATITUDE |
| camera_longitude | -1800000000 - 1800000000 | Location (longitude) of the radar -1800000000 (West Kyodo 180deg) 1800000000(East 180deg) | CAMERA_LONGITUDE |
| camera_orientation | 0 - 3599 | Radar installation position (azimuth) 0 - 359.9 deg ex 0:North (0deg) 900:East (90.0deg) 1800:South (180.0deg) 2700;West (270.0deg) | CAMERA_ORIENTATION |

[Command example]

When installing Security Radar southward at latitude 35.626889 and longitude 139.741972
http://192.168.0.10/cgi-bin/set_radar?camera_latitude=35626889&camera_longitude=139741972&camera_orientation=1800

4.4. Radar Obstruction Detection

[URL] /cgi-bin/set_radar

[Method] GET/POST

[Access level] 1

| Parameter name | value | Comments | In the Get Setup CGI Supported Parameters (/cgi-bin/get_radar) |
|----------------|-----------------------------|--|--|
| scd_state | enable, disable | Radar Obstruction Detection status Enable: Enabled Disable: Disabled | SCD_STATE |
| sens | superlow, low, middle, high | Radar Obstruction Detection Sensitivity Superlow: Minimum Low: Low Middle: Medium High: High | SENS |
| detecttime | 3, 5, 10, 60 | Radar Obstruction Detection detection times 3:3s 5:5s 10:10s 60:1min | DETECTTIME |

[Command example]

Turn ON Radar Obstruction Detection

http://192.168.0.10/cgi-bin/set_radar?scd_state=enable