RC3502SV-7311/IR

Full HD Starvis Sensor Outdoor (IR) Dome IP Camera

- Full HD1080p @ 30fps
- Remote Zoom/Focus Control (One Click AF)
- Video Compression: H.264, MJPEG
- True Day/Night and true WDR
- Superior low light performance
- Video Dual Stream, Two-way Audio with G.711
- -7311IR - built-in IR illuminator with Smart IR control
- MicroSD/SDHC Memory Card Slot
- **ONVIF** Support, PoE (IEEE 802.3af)
- Embedded VCA Technology Video Analytics
- Vandal Proof IK-10 / IP66 Protection Ration

Specifications

CAMERA

Model	**RC3502SV-7311:** Motorized Focus & Zoom lens **RC3502SV-7311IR:** Motorized Focus & Zoom lens / built-in IR LED
Image Sensor	SONY STARVIS 1/2.8" 1080p CMOS
Effective Pixels	1920 x 1080
Scanning System	Progressive scanning
AGC Control	Auto, adjustable amplification level
Auto IRIS (DC)	Iris control via camera unit
Minimum Illumination	Color: 0.2Lux / 0.01Lux (DSS On) -7311IR: B/W : 0.006 Lux -7311IR: B/W : 0.00 Lux (IR LED On)
Lens	2.8(w) – 12.0mm(t), F1.4(w) – F2.6(t), Motorized Focus & Zoom Control – One Click Focus Function
Lens Angle of View	Horizontal: Approx. 99°(Wide) to 35°(Tele) Vertical: Approx. 54°(Wide) to 20°(Tele)
Shutter Time	1/10000s to 1/2s
Shutter Exposure Modes	Automatic - with configurable min/max shutter speed (exposure time range) Manual - with configurable fixed shutter speed Flicker-Control - 50/60Hz
Day & Night Switching	Auto/Manual (both switching level adjustable 1 ~ 64) removable IR Cut Filter
Image Settings	Configurable brightness, contrast, saturation, sharpness, vertical flip & horizontal mirror function Corridor Mode (-90° / +90° image flip)
2D-DNR	Configurable digital noise reduction 1 ~ 16
Wide Dynamic Range	Up to 120dB Dynamic Range with activated WDR
Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV
White Balance	ATW1 / ATW2 / Push / Manual
DSS (Sens-up)	Configurable digital slow shutter 2X ~ 16X
Backlight Compensation	BLC On/Off (possible to designate zone)

IR ILLUMINATOR (-7311IR ONLY)

IR LED	IR LED x 28 (850nm)
IR Working Distance	approx 40m (131ft)
SMART IR	Automatically adjust the infrared light to the best, according to the brightness of the scene

VIDEO

Video Compression		H.264 Baseline, Main, High profile (MPEG-4 Part 10/ AVC), MJPEG (Motion JPEG)
Video Streaming		Dual Stream, Independent Configurable **H.264:** Controllable frame rate and image resolution, bandwidth limitation (CVBR/CBR) **MJPEG:** Controllable frame rate and image resolution, JPEG quality
Resolution	16:9 model	1920x1080, 1280x720, 1120x630, 960x540, 800x450, 640x360, 480x270, 320x180
	4:3 model	SXGA(1280x960), XGA(1024x768), SVGA (800x600), PAL(720x576), NTSC(720x480) VGA(620x480), QVGA(320x240)
Frame Rate		H.264: Configurable up to 30fps in all resolution* MJPEG: Configurable up to 30fps in all resolution*
Motion Detection		Max. 8 zones with independent configuration of detection sensitivity and target object size
Video Stabilization		Supported for First/Second Stream and Snapshot
Defogging		Selectable Defogging level (low, medium, high)
Text Overlay		Free positioning of display for time/ data/ name (name up to 48 signs)
Privacy Mask Zones		4 flexible configurable region
Analogue Video		-

AUDIO

Audio Input / Output	Line-In: 0.178Vp-p, 10KΩ Lineout: 2.26Vp-p, 10KΩ
Compression Format	G.711-uLaw

NETWORK

|	
Ethernet Standard/IP	10 / 100 Base-T / IPv4, IPv6
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP,DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP,ICMP, SSLv2/v3, TLSv1, SRTP, RTMP
Users Connection	Live viewing for up to 10 clients
Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection

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GENERAL

I/O Terminal	1x Alarm In - max 50mA@5VDC, TTL 2x Alarm Out - max 50mA@24VDC, TTL
Edge Storage	Via micro SD/SDHC card (up to 32GB) for continuous or event recording. Search interface for event files, playback and download (card not included).
Application Programming Interface	Software Development Kit (SDK) available, ONVIF compliant
Event Metadata Streaming RTSP/RTP	Video Motion Detection(MD), Video Content Analytics(VCA)
ONVIF	Version: 2.41 (Support Profile S and G)
Event Sources	Sensor(DI), Video Motion Detection, Tamper Detection, Video Content Analytics(VCA), Network Loss/Detect, Network Setting Change, Time (Recurrene/Schedule)
Event Actions	Notification service via TCP/IP, HTTP, multicast or email text messages with snapshot, DO-contact, file upload on external FTP server, local SD memory card recording
Approvals	FCC, CE, KC, IP66, IK-10, RoHs

ELECTRICAL

Power Source	12V DC / PoE (IEEE 802.3af)
Power Consumption	**-7311:** 9W @ DC 12V (Heater On) **-7311IR**: 10W @ DC 12V (Heater, IR-LED On)

ENVIROMENT

Operation Temperature	DC12V/PoE : -40°C ~ 50°C (-40°F ~ 122°F) Built-in heater
Operating Humidity	Up to 85% RH, Non-condensing
Material	Aluminum Die Casting, Anti-vandal bubble (PC)
Color	White
Dimension	Housing: 155(Φ) x 129(H) mm, (Ø6.2" x 5.1") Bubble: 100(Φ) mm (Ø3.9")
Weight (Approx)	1.2kg (2.7 lbs)

VIDEO CONTENT ANALYSIS   (Included as Standard)

High Performance	Advanced tracking algorithm and low false alarm rate
Easy to Use	Intuitive web browser interface
Detection Zones and Rules	Up to 40 zones (multi-segment polygons and lines) 60 VCA filter rules in total
On-screen Display	Real-time display of tracking data and events via activeX plug-in in IE browser
Burnt in Annotation	Allows the VCA annotation to be burnt into the raw video stream for displaying on third party application
Tamper Detection	Recognize camera tampering via VCA detection (defocusing, lens covering, camera moving)

VIDEO CONTENT ANALYSIS (Option extension License)

Available License	VCAdetectIP, VCAcountIP, VCAadvancedIP, VCAprofessionalIP
VCA Detection Filters	Objekt: Enter, Exit, Appear, Disappear, Stop, Direction, Dwell, Speed, Unauthorized Access, Counting Line, Color Filter, Object Classification
VCA Features	- Up to 20 Onscreen Counter Displays - Counting-Line for accuracy people and vehicle counting with local database and reporting service - VCA calibration via 3D tools for right object size detection - Several definable object class to include into the detection rules for the VCA alarm - 10 colors in total to distinguish objects by color - People tracking mode to tracks individuals separately among overlapped multiple people - Heatmap Report shows relative crowd density of the 24 hour period (criterion: midnight)
Logical Rules	Extension of alarm rules using logical operators (AND, OR..) for the VCA detection filters of created zones / lines

* If VCA is activate, frame rate is limit to max. 15fps@1080p.

Dimension   (Unit: mm)

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Specification subject to change without notice
Version June 2017
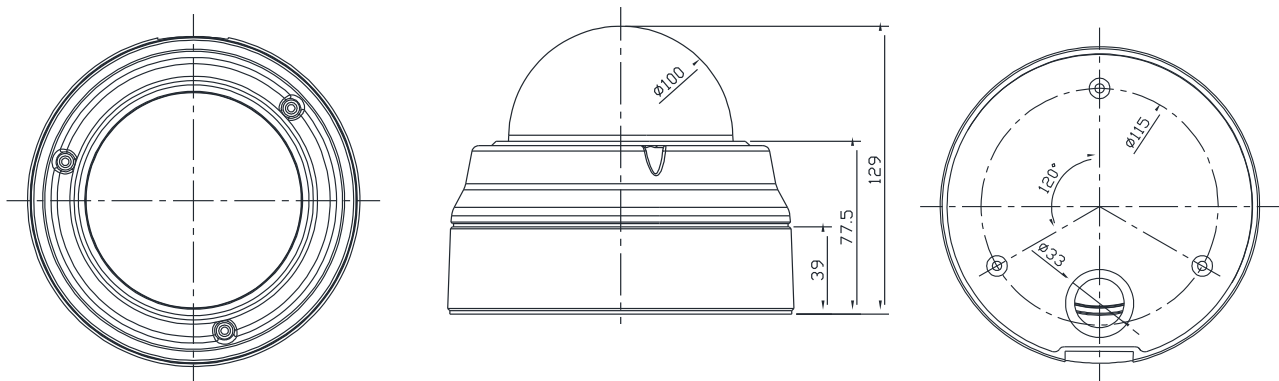
RC3502SV-7311/IR

Standard Camera   RC3502SV-7311

Standard Camera   RC3502SV-7311IR

■ Super Low Light Performance

One of the major complaints from CCTV users is known to be poor visibility at night time. RC3502SV equipped with the Sony STARVIS image sensor can be a solution to soothe the complaining customers. RC3502SV shows off its outstanding imaging functionality especially when it performs in low light conditions. Image appears brighter, thus objects and the details become more visible in RC3502SV compared to the conventional full HD IP cameras.

■ Improved Performance of Video Analytics

RC3502SV's superior imaging functionality in low light conditions promotes the leading-edge video analytics to perform its best by eliminating the low light barrier that causes the video analytics engine to have difficulty detecting
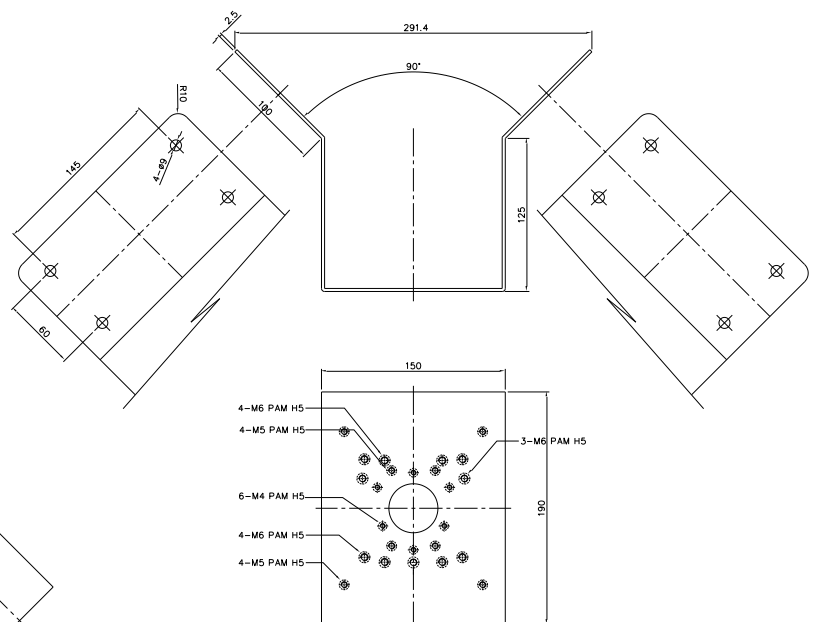
Accessories

Wall Mount Bracket
Model: WMB-3000

Weight: 1Kg (2.2lb)
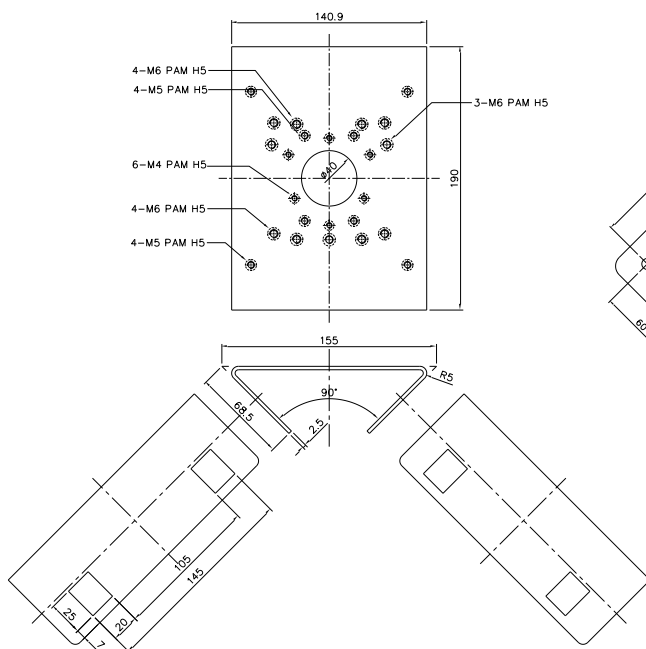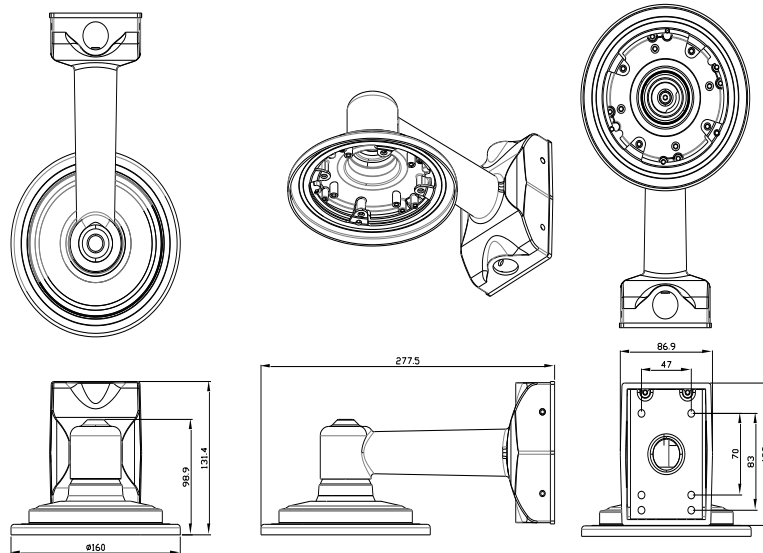
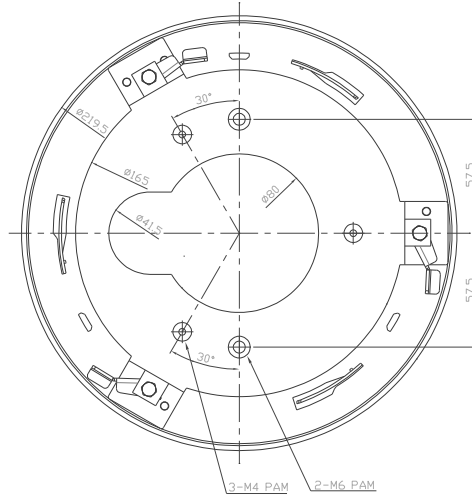### Pole Mount Adaptor
Model: PMA-U100

Weight: 2,28Kg (5.0lbs)

Corner Mount Adaptor
Model: CMA-U100

Weight: 946g (2.1lbs)

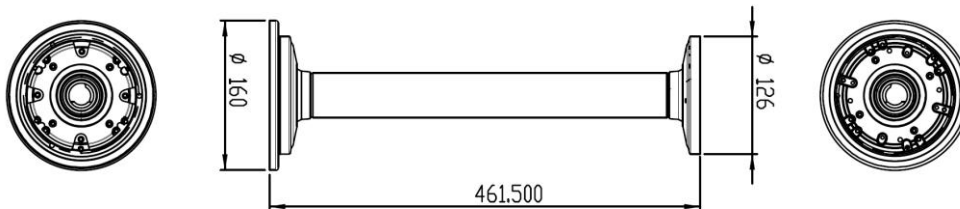To mount wall bracket WBM-3000 on pole or comer the adaptor PMA-3000 or CMA-3000 can use alternative.

RIVA®
... more than standard

Flush Mount Bracket
Model: FMB-3502
Weight: 400g (0.9lb)

Ceiling Mount Bracket
Model: CMB-3000
Weight: 400g (0.9lb)
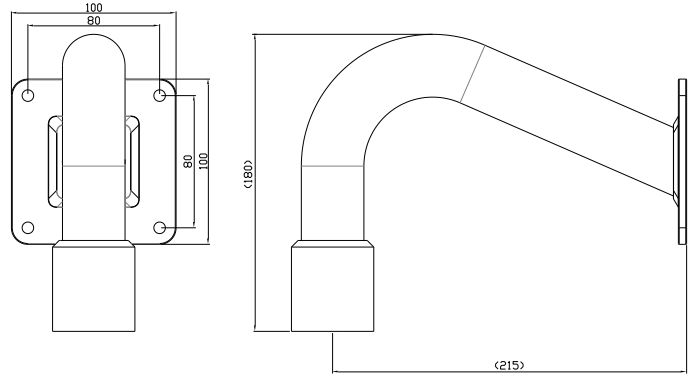

Please note: To cover IP classification of the camera housing or bracket need accordingly installation
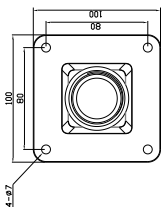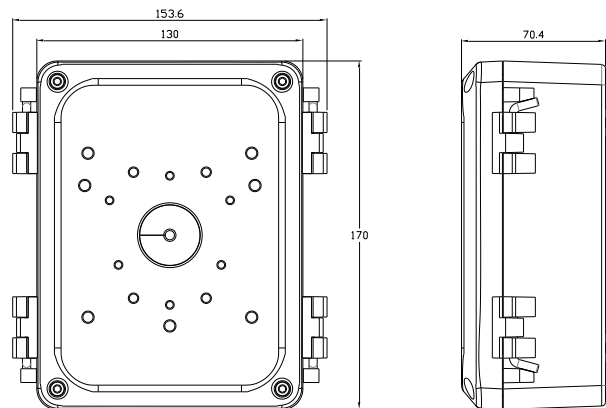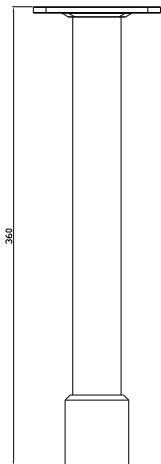
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Additional Accessories
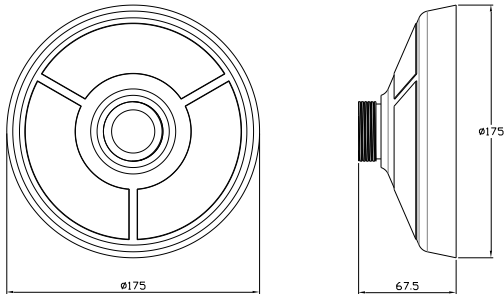
Pendant Mount Cap
Model: PMC-3000

Weight: 427g (0.94lbs)

Wall Mount Bracket
Model: WMB-3000P

Weight: 430g(0.95lbs)

Ceiling Mount Bracket
Model: CMB-3000P

Weight: 437g (1.0lbs)

Junction Box
Model: JBK-U100

Weight: 1.02Kg (2.2lbs)