RC3502HD

H.264 Full HD Outdoor Fixed IP Dome Camera

- Full HD1080p @ 30fp
- 6311 Model fit with Remote Zoom/Focus Control (One Click AF)
- Video Compression: H.264, MJPEG
- True Day/Night and WDR
- Video Dual Stream, Two-way Audio with G.711
- 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		RC3502HD-5211: Vario focal lens
		RC3502HD-6311: Motorized Focus & Zoom lens
Image Sensor	5211	1/2.7" 1080p CMOS
	6311	SONY EXMOR 1/2.9" 1080p CMOS
Effective Pixels		1920 x 1080
Scanning System		Progressive scanning
AGC Control		Auto, adjustable amplification level
Minimum Illumination		Color: 0.5 lux, F1.2 - B/W : 0.001Lux (DSS ON)
Auto IRIS (DC)		Iris control via camera unit
Lens	5211	Manual 3.0 – 9.0mm Vari-Focal, F1.2-F2.1
	6311	3.0 – 9.0mm Zoom, F1.2-F2.1, Motorized Focus & Zoom Control – One Click Focus Function
Lens Angle of View		Wide approx: 93.0°(H) x 68.4°(V) Tele approx: 31.7°(H) x 23.8°(V)
Shutter Time		1/10.000s 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	5211	Digital WDR (configurable levels 1-16)
	6311	Up to 100dB Dynamic Range with 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)
SNR		Better than 50dB
Focus Assistant	5211	Video display to simplify the focus point adjustment

VIDEO

Video Compression	H.264 Baseline, Main, High profile (MPEG-4 Part 10/ AVC), MJPEG (Motion JPEG)
Unicast / Multicast RTSP 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

VIDEO

Resolutions	**16:9 mode**	1920x1080, 1280x720, 1120x630, 960x540, 800x450, 640x360, 480x270, 320x180
	4:3 mode	SXGA(1280x960), XGA(1024x768), SVGA (800x600), PAL(720x576), NTSC(720x480) VGA(620x480), QVGA(320x240)
Frame Rate		H.264: Configurable up to max 30fps in all resolution* MJPEG: Configurable up to max 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)
Burnt-in Text		Time / Date / Name (Name up to 48 characters), flexible display position configuration
Privacy Mask Zones		4 flexible configurable regions
Analogue Video		NTSC/PAL Video Signal (1.0Vp-p, 75Ω)

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 in unicast streaming mode Unlimited live viewing clients number in multicast streaming mode
Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection

GENERAL

I/O Terminal	1x Alarm In - max 50mA@5VDC, TTL 1x 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)

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GENERAL

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 (Recurrence/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)
(Approx) Power Consumption	**5211**	14.52W @ DC 12V
	6311	14W @ DC 12V

ENVIROMENT

Heater	Heater Unit (Heater Function only with 12V-DC power)
Operation Temperature	DC12V : -40°C ~ 50°C (-40°F ~ 122°F) PoE : -20°C ~ 50°C (-4°F ~ 122°F) Cold Start DC12V : -30°C (-22°F) / PoE: 0 °C (32°F)
Operating Humidity	Up to 85% RH, Non-condensing

MECHANICAL

Material	Aluminum Die Casting, Anti-vandal bubble (PC)
Color	White
Dimension	Housing: 155(Φ) x 129(H) mm, Dome: 100(Φ) mm
Weight (Approx)	1.2kg (2.64 lbs)

* If VCA is activate, frame rate is limit to max. 15fps@1080p. Limitations are based on V.1.9.0 firmware release and could be changed without notice
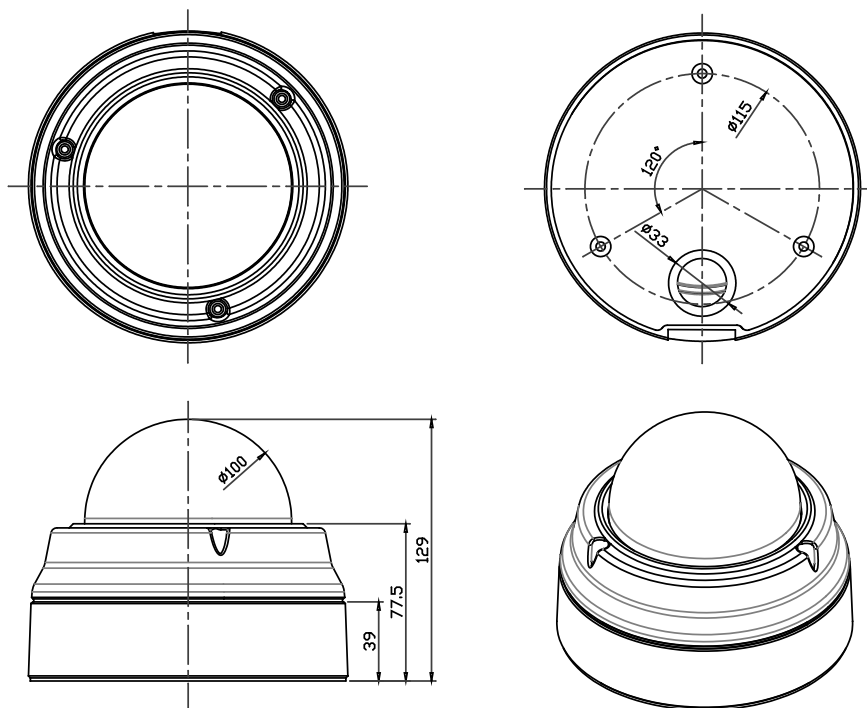
VIDEO CONTENT ANALYSIS (Included as Standard)

|	
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, VCAsurveillanceIP, 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
Info VCA	Details regarding supported VCA filters and features of the different extension licenses find on RIVA Product Overview document

Dimension

(Unit: mm)

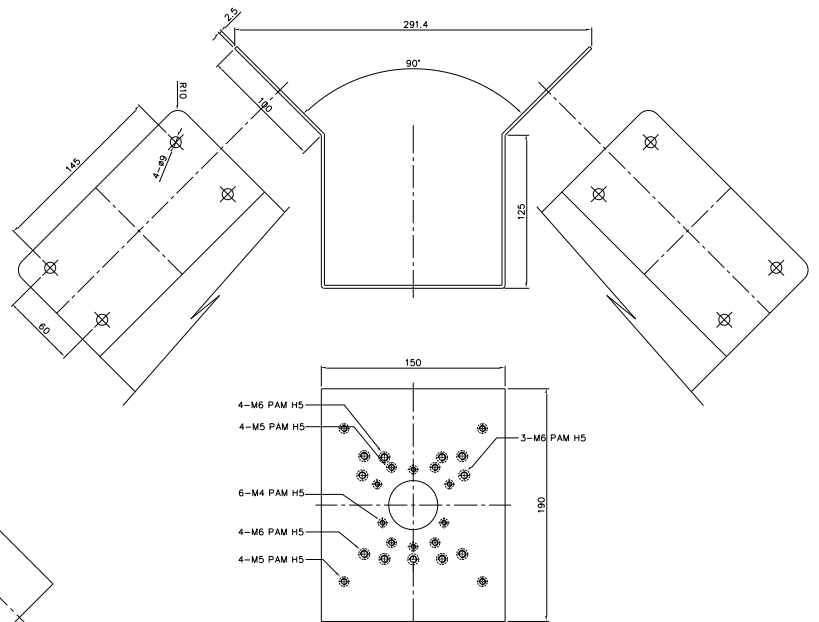# Accessories

Wall Mount Bracket
Model: WMB-3000
Weight: 1Kg (2.2lb)
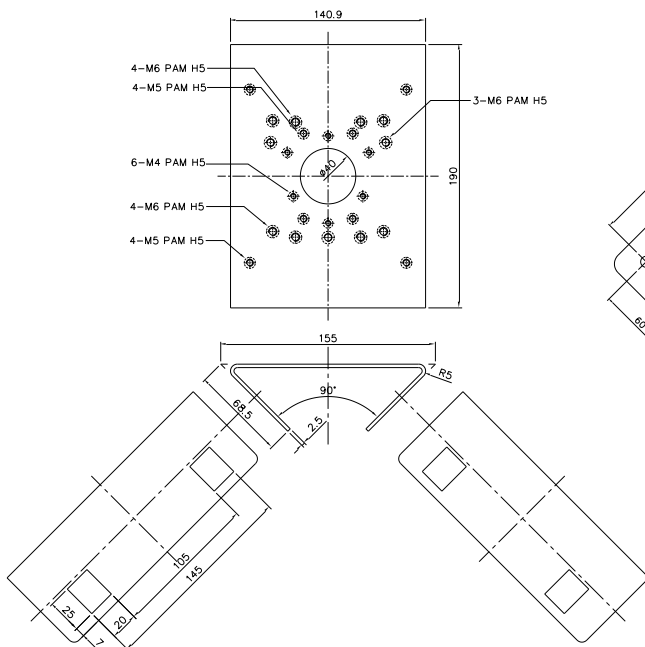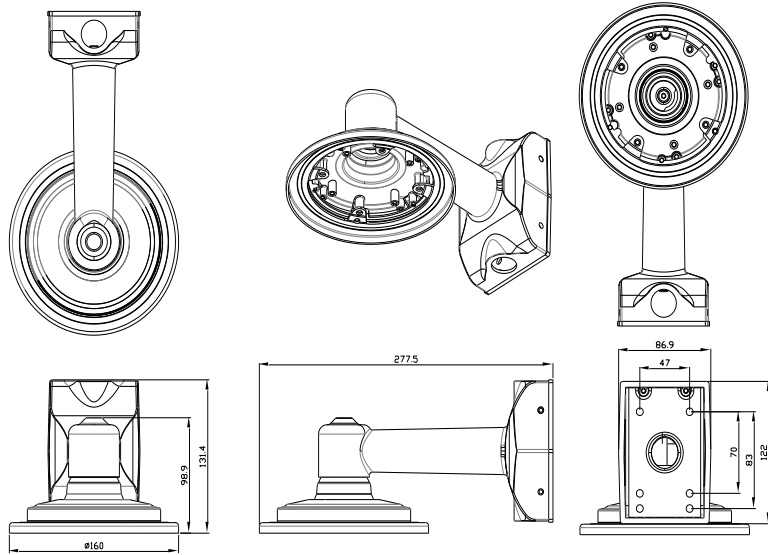
Pole Mount Adaptor
Model: PMA-U100
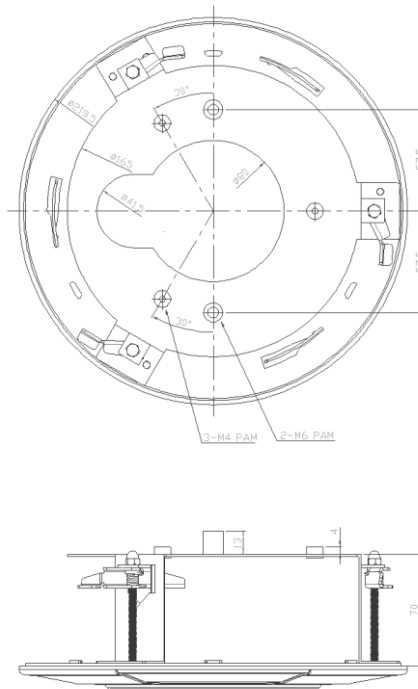Weight: 2,28Kg (5.0lb)

Corner Mount Adaptor
Model: CMA-U100
Weight: 946g (2.1lb)

To mount wall bracket WBM-3000 on pole or comer the adaptor PMA-3000 or CMA-3000 can use alternative.
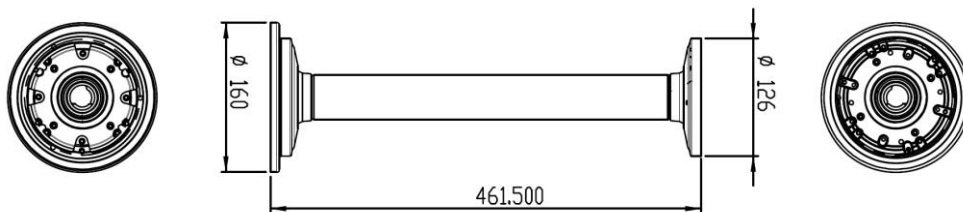
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Flush Mount Bracket
Model: FMB-3502

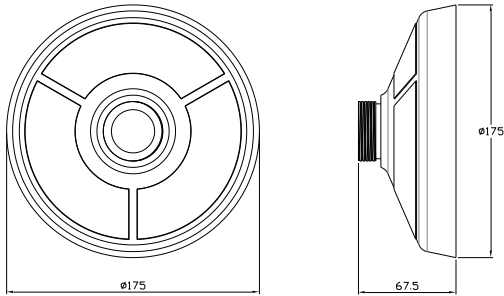Weight: 400g (0.9lb)

Ceiling Mount Bracket
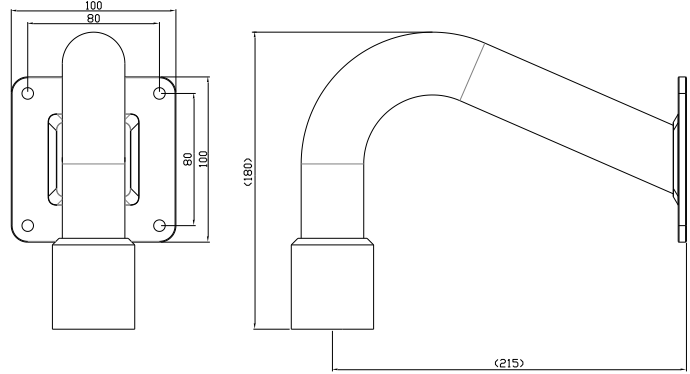Model: CMB-3000

Weight: 400g (0.9lb)

Please note: To cover IP classification of the camera housing or bracket need accordingly installation
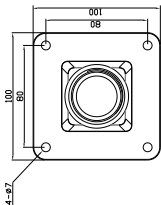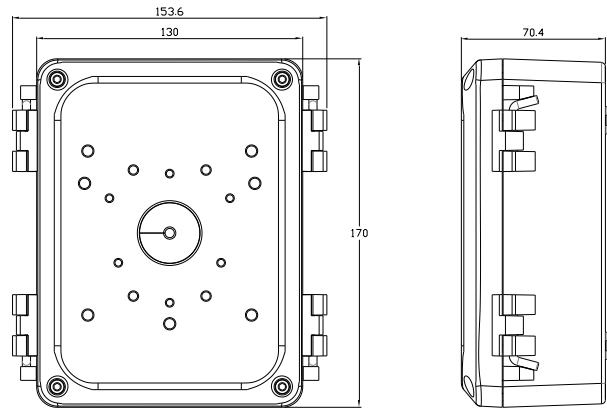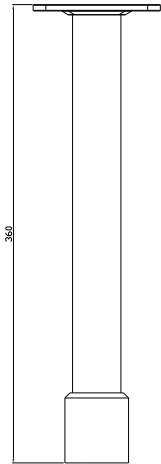
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Additional Accessories on Request

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)

www.rivatech.de
Specification subject to change without notice
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