RC3302HD – RC3702HD

RIVA®
... more than standard

H.264 Full HD Repositionable Indoor / Outdoor IP Camera

- Full HD1080p @ 30fps
- Remote Controllable Pan and Tilt Repositioning
- 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
- RC3702HD - Vandal Proof IK-10 / IP66 Protection Ration

RC3302HD   RC3702HD

ONVIF

Specifications

CAMERA	
Model	Standard feature: Remote control of pan/tilt – zoom/ focus
	RC3302HD-5344: Indoor, flush mount version
	RC3702HD-5314-NH: Indoor, hard ceiling version
	RC3702HD-5314: Outdoor, hard ceiling version
Image Sensor	1/2.7" 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: 0.5 Lux, F1.2 - BW: 0.01 Lux (DSS ON)
Lens	3.0 – 9.0mm Vari-Focal, 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	Digital WDR (configurable levels 1-16)
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)
Focus Assistant	Video display to simplify the focus point adjustment
REPOSITIONING	
Pan / Tilt Speed	Max. 7°/sec.
Pan / Tilt Range	Pan range: 0° to 355° - Tilt range: 0° to 80°
Repositioning Preset	16 named presets (pre-stored position) Recall of presets via internal timer function
Pan / Tilt Lifespan	Approx. 5,000 counts each

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 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)
Text Overlay		Free positioning of display for time/ data/ name (name up to 48 signs)
Privacy Mask Zones		4 flexible configurable region
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
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

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GENERAL

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	RC3302HD: FCC, CE, KC, RoHs
	RC3702HD: FCC, CE, KC, IP66, IK-10, RoHs

ELECTRICAL

Power Source	12V DC / 24V AC / PoE (IEEE 802.3af)	
Power Consumption (Approx)	RC3302HD-5344:	8,64W @ DC 12V
	RC3702HD-5314-NH:	9W @ DC 12V
	RC3702HD-5314:	16.2W @ DC 12V (Heater on)

ENVIROMENT

Fan / Heater	RC3702HD-5314: Fan / Heater Unit (Heater only with 12V DC / 24V AC)
Operation Temperature	RC3302HD-5344 / RC3702HD-5314-NH: DC12V/AC24V/PoE: 0˚C ~ 50˚C (40˚F ~ 122˚F)
	RC3702HD-5314: PoE: 0˚C ~ 50˚C (40˚F ~ 122˚F) DC12V/AC24V: -20°C ~ 50°C (-4°F ~ 122˚F) Cold Start DC12V/AC24V: -20˚C (-4˚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	RC3302HD Housing: 165 (Φ) x 135 (H) mm, Dome: 100(Φ) mm
	RC3702HD Housing: 155 (Φ) x 130 (H) mm, Dome: 100(Φ) mm
Weight (Approx)	RC3302HD: 1.2kg (2.64 lbs)
	RC3702HD: 1.6kg (3.52lbs)

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 - People tracking mode to tracks individuals separately among overlapped multiple people - Heatmap Report shows relative crowd density of the 24 hour period (criterion: midnight)
VCA Preset	Storage of 16 VCA Presets: Different VCA zone (line) and VCA filter setup can be assigned to the separate preset position.
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

* 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

# RC3302HD – RC3702HD

Dimension: (Unit: mm)

Indoor - RC3302HD
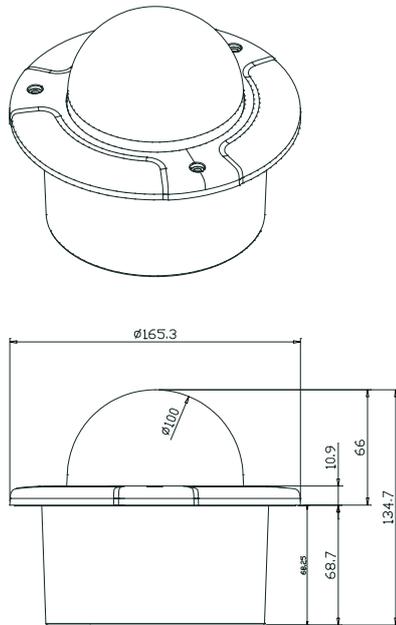
Indoor/Outdoor - RC3702HD
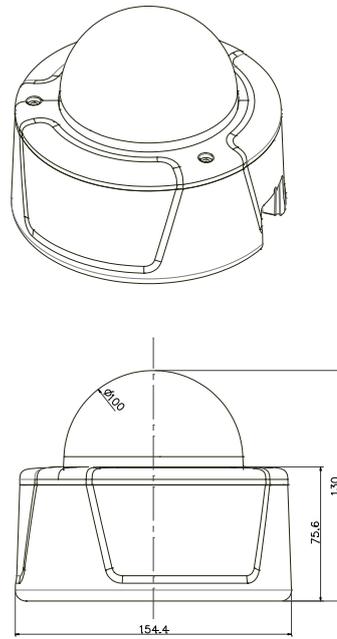
Accessories

RC3302HD Indoor

Flush Mount Bracket
Model: FMB-3302
Weight: 270g (0.6lb)
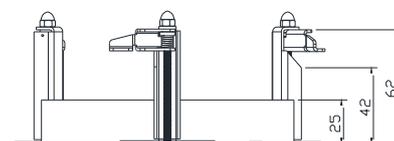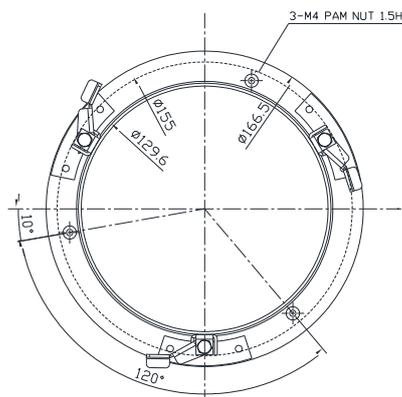
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RC3702HD Indoor/Outdoor
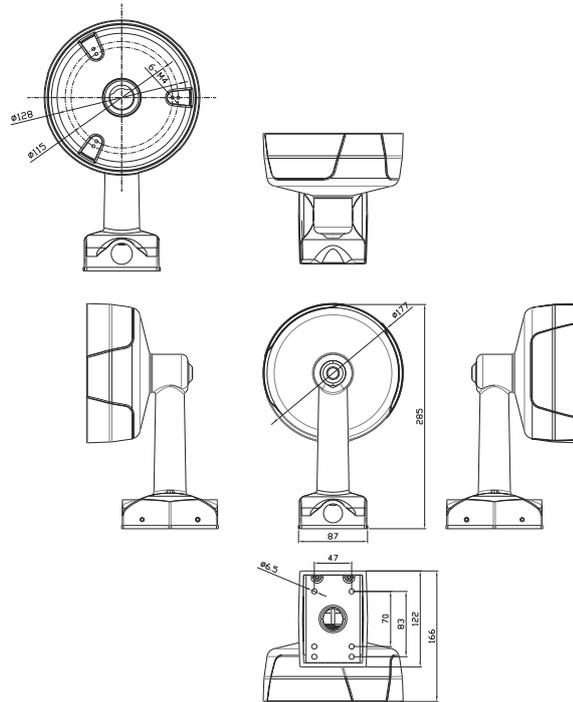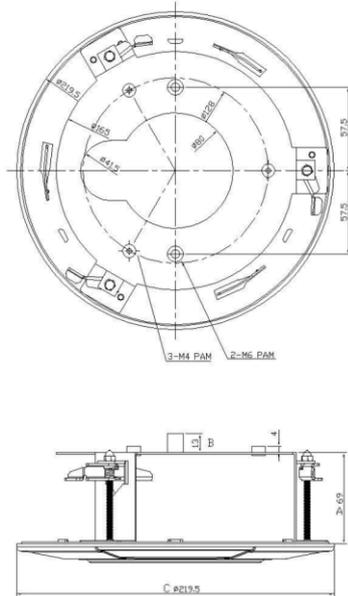
Flush Mount Bracket
Model: FMB-3702

Weight: 460g (1lb)

Wall Mount Bracket
Model: WMB-3000S

Weight: 960g (2.1lb)
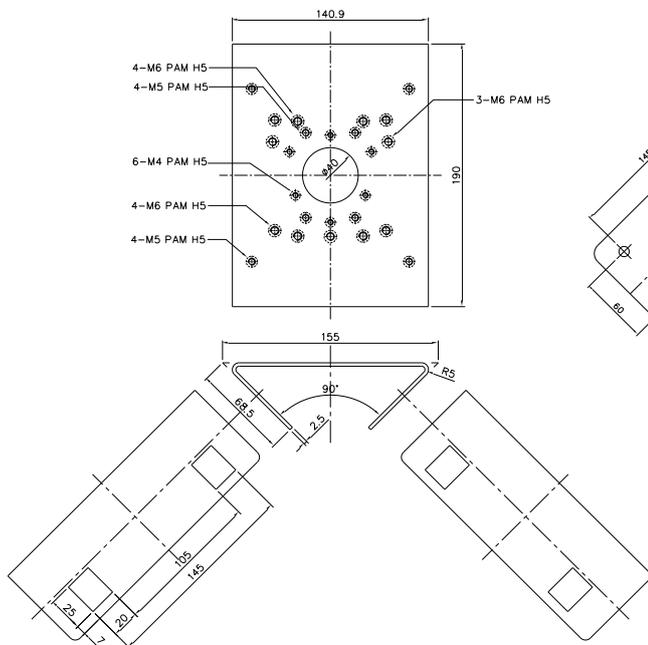
Pole Mount Adaptor
Model: PMA-U100

Weight: 2,28Kg (5.0lbs)
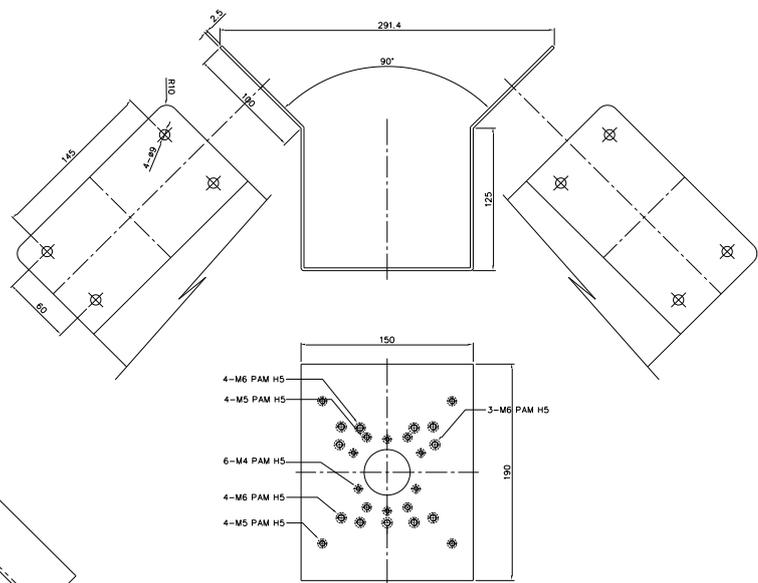
Corner Mount Adaptor
Model: CMA-U100

Weight: 946g (2.1lbs)

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