

# JUNCTION BOX FOR THE VIDAR CAMERA FAMILY

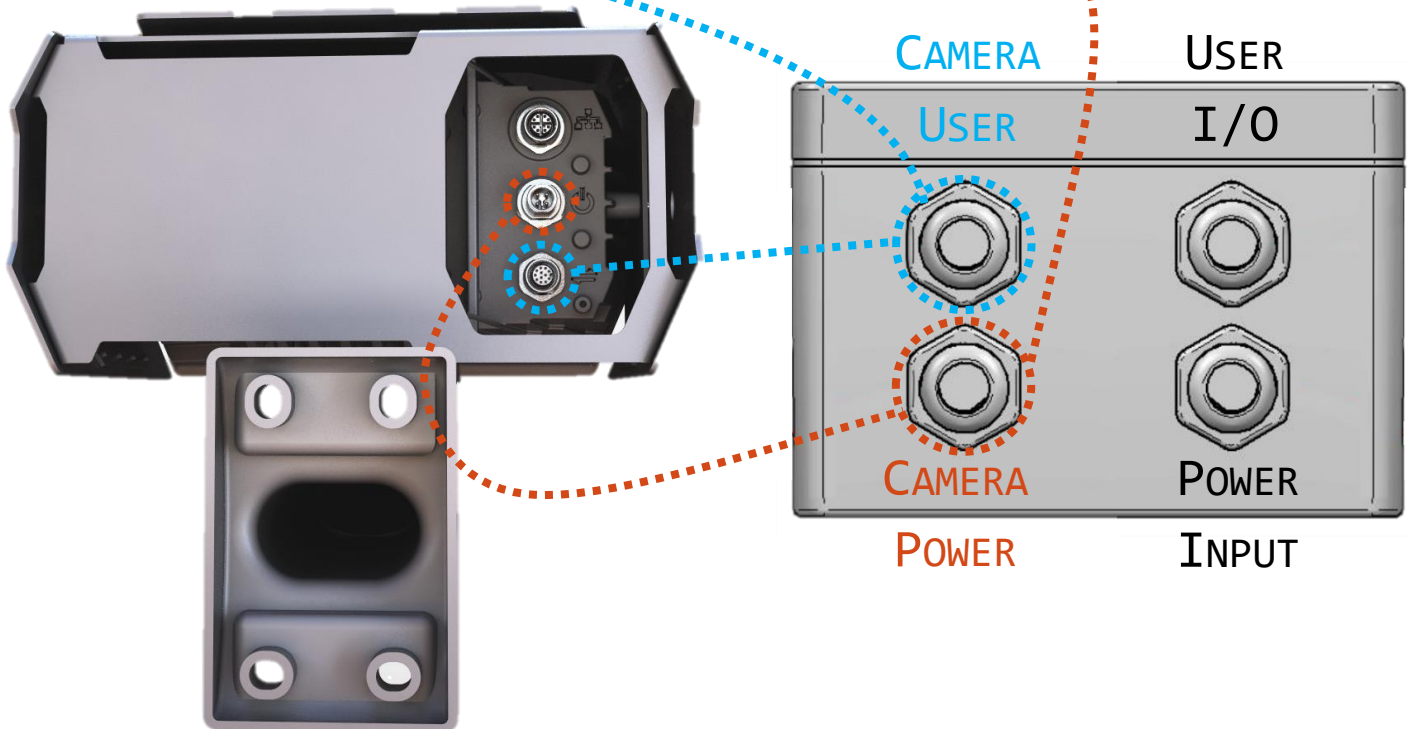


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**A 12-PIN USER CABLE (M12 BINDER FEMALE CONNECTOR AT ONE END, AND A STRIPPED END ON THE OTHER) IS REQUIRED TO CONNECT THE CAMERA TO THE JUNCTION BOX. THIS I/O CABLE IS NOT INCLUDED BY DEFAULT WITH THE CAMERA. HOWEVER, YOU CAN PURCHASE IT DIRECTLY FROM ARH (PART #: COMBUY-OTH-0326).**

# CONNECTIONS

Camera Power Cable	Camera User Cable (12-pin)	Junction Box Camera side	Junction Box User Side	User Cable
RED (#1 AND #2)	-	1 - POWER OUTPUT +	1 - POWER INPUT +	24 V AC
BLACK (#3 AND #4)	-	2 - POWER OUTPUT -	2 - POWER INPUT -	24 V AC
-	GREY/PINK	3 - OPTO_OUT_G	3 - RELAY_NC	GP OUT #1 GND
-	PURPLE	4 - OPTO_OUT_S	4 - RELAY_NO	GP OUT #1 SIGNAL
-	RED/BLUE	5 - OPTO_IN_S	5 - RELAY_COM	GP IN #1 SIGNAL
-	BROWN	6 - OPTO_IN_G	6 - OPTO_IN_S	GP IN #2 SIGNAL
-	NOT CONNECTED	7 - RS485 TERM.	7 - OPTO_IN_G	NOT CONNECTED
-	WHITE	8 - SERIAL_RX	8 - SERIAL_RX	USER SERIAL RX
-	BLUE	9 - SERIAL_TX	9 - SERIAL_TX	USER SERIAL TX
-	PINK	10 - SERIAL_GND	10 - SERIAL_GND	USER GND



# ELECTRICAL & MECHANICAL DATA

	24 – 28 V AC
<b>Input Power</b>	Overvoltage, overcurrent protection fuse (T 1.5A) Transient protection
<b>Communication</b>	Interface points for communication: RX, TX, GND Transient protection
<b>Input</b>	Optocoupler interface Can be configured by jumpers (see the marking on the PCB) 'Dry' or 'Contact' Dry: min. 5mA – max. 15mA (input resistance: 1k $\Omega$ )
<b>Output</b>	Galvanic isolated 1-pole relay output Optional 'Status LED' on the box: <b>GREEN</b> : relay ON <b>RED</b> : relay OFF COM, NO (Normal Open), NC (Normal Close) outputs 2A, 250 V AC / 24 V DC Min. 10 <sup>5</sup> switching cycles Max. voltage: 350 V AC, 100 V DC
<b>On board status LEDs</b>	<b>Green</b> — Power <b>Red*</b> — Relay ON <b>Yellow</b> — Optocoupler is active
* The junction box can be used for testing purposes as well. In case of correct wiring, after turning on the device, the relay will click and the red status led will light continuously until the trigger output is active.	
<b>Box</b>	Polycarbonate (IP65 rated) Cable outlets
<b>Cable outlets</b>	M16 cable glands (camera power, camera user, input power, user input / output)
<b>Cable thickness</b>	4.5 mm – 10 mm
<b>Mechanical dimensions</b>	120 mm × 80 mm (+ cable gland max 30 mm) × 85 mm
<b>Temperature range</b>	-40 °C – +80 °C