

Smart Vision Lights — available now

Seven new SKUs (Balluff FHW02M*), **available now** — dedicated lighting for the BVS C-mount cameras. Pair a light with your C-mount lens and a protective cover to complete the setup. Select by **beam angle** (lens) and **drive type** (Multi-Drive or Dual OverDrive). All models: 24 VDC · LED white 5700 K · IP65 aluminum · M12 connector, **driven directly from the BVS light port**.

JWL150 — CAMERA-TO-LIGHT (CTL)



CAMERA-TO-LIGHT (CTL)

JWL150 -MD / -DO

Batwing LED light that mounts at the camera to illuminate a larger area than a camera's built-in source. 62 mm clear aperture, aluminum housing, IP65. Available as Multi-Drive (continuous or OverDrive strobe) or Dual OverDrive (strobe-only).

BEAM ANGLE (LENS)

10° · 14° · 30°
50° on DO

DRIVE

Multi-Drive
or Dual
OverDrive

ILLUMINANCE @0.1 M

35,000 lux
140,000 OverDrive

WORKING DISTANCE

500–2000 mm

BALLUFF RECOMMENDATION

JWL150 with the 10° lens for BVS vision-sensor and ident-sensor applications with a read range beyond 4 ft (1.2 m).

Mounting: integrated T-slots (T-bolts included). A bracket to attach the light to the camera is **customer-supplied today**; a Balluff bracket is planned. Reference bracket CAD: 7200510716.STEP.

Connection: driven from the BVS light port (+24 V, Light/Out, Boost/Out, GND). Connect with a 0.3 m (1 ft) M12 cordset — Balluff BCC05LR.

FHW02MP JWL150-MD-WHI-N10 (10°, Multi-Drive) · FHW02MZ JWL150-DO-WHI-W50 (50°, Dual OverDrive)

ALSO NEW — LINEAR, RING, SPOT



Linear / bar LSR series

Linear bar light. Uniform illumination along a line. Three lengths; built-in T-slot rail.

10° lens (30° / Line available) · **Multi-Drive**
FHW02MT · FHW02MR · FHW02MU — 150 / 300 / 1200 mm



Ring RMX140 mini ring

Mini ring light. Radial, dark-field and bright-field. Industrial aluminum, lens-versatile.

10° lens (to 80° available) · **Multi-Drive**
FHW02MY — working distance 100–500 mm



Spot / prox SX30G2 series

Spot light. Concentrated beam; bright-field, dark-field and direct. 34.5 mm barrel.

10° lens (30° available) · **Multi-Drive**
FHW02MW — working distance 300–2000 mm

ALL SEVEN — SPECIFICATIONS

ORDER CODE	MODEL	TYPE	BEAM	DRIVE	SIZE (MM)	ILLUMINANCE @0.1 M	WORKING DISTANCE
FHW02MP	JWL150-MD-WHI-N10	Camera-to-light	10°	Multi-Drive	84 × 40 × 159	35,000 (140,000)	500–2000 mm
FHW02MZ	JWL150-DO-WHI-W50	Camera-to-light	50°	Dual OverDrive	54 × 40 × 159	250,000 (strobe)	500–2000 mm
FHW02MY	RMX140-WHI-N10	Ring (mini)	10°	Multi-Drive	140 dia × 41	34,000 (272,000)	100–500 mm
FHW02MT	LSR150-WHI	Linear / bar	10°	Multi-Drive	54 × 50 × 181	60,000 (180,000)	300–2000 mm
FHW02MR	LSR300-WHI	Linear / bar	10°	Multi-Drive	54 × 50 × 325	60,000 (180,000)	300–2000 mm
FHW02MU	LSR1200-WHI	Linear / bar	10°	Multi-Drive	54 × 50 × 1190	60,000 (180,000)	300–2000 mm
FHW02MW	SX30G2-WHI	Spot / prox	10°	Multi-Drive	34.5 dia × 107	100,000 (250,000)	300–2000 mm

Beam angle is the lens — these are the standard narrow (10°) SKUs; wider lenses (to 30° / 50° / 80°) are available per family. Illuminance @0.1 m in lux; value in parentheses is the OverDrive strobe figure (Dual OverDrive is strobe-only). For pricing, contact your Balluff representative.

Smart Vision Lights, offered by Balluff. Accessories · lighting for vision systems. New for 2026 — contact your Balluff representative to order.

Complete your BVS C-mount setup — lens, light, cover

The four BVS C-mount cameras (BVS Ident and BVS Vision, M1280Z00) ship with **no lens and no light**. Build the imaging chain around the camera: add a C-mount lens, a Smart Vision Light driven from the BVS light port, and a protective cover sized to the lens.

BVS C-mount camera

+

C-mount lens

+

Smart Vision Light

+

Protective cover

THE CHAIN, PART BY PART

1 CAMERAS THAT NEED DEDICATED LIGHTING

These four C-mount variants have no built-in lens or LED — they require an external lens and light. (Other BVS readers with a built-in lens and LED do not.)

ORDER CODE	MODEL	LINE
BVS03A7	BVS ID-M1280Z00-L3-000	BVS Ident
BVS03A8	BVS ID-M1280Z00-MB-000	BVS Ident
BVS03A9	BVS VS-M1280Z00-L3-000	BVS Vision
BVS03AA	BVS VS-M1280Z00-MB-000	BVS Vision

2 C-MOUNT LENS

Recommended C-mount lenses for these cameras — **pick focal length by working distance and field of view**.

ORDER CODE	FOCAL LENGTH	MAX APERTURE	MODEL
FHW007Y	12 mm	f/1.4	FL-CC1214A-2M
FHW007W	16 mm	f/1.4	FL-CC1614A-2M
FHW007U	25 mm	f/1.4	FL-CC2514A-2M
FHW006M	35 mm	f/2.0	LM35JCM-WP
FHW007R	50 mm	f/2.4	FL-CC5024A-2M
FHW007P	75 mm	f/2.8	FL-CC7528-2M

All six are adjustable-aperture lenses. For exact sizing, check the lens selector.

3 SMART VISION LIGHT

The camera-to-light mounts around the camera and C-mount lens so the two become one unit.

BALLUFF RECOMMENDATION

For these four cameras: the **JWL150** camera-to-light with the **10° lens** — **FHW02MP** (JWL150-MD-WHI-N10, Multi-Drive).

The 50° wide variant (**FHW02MZ**, JWL150-DO-WHI-W50, Dual OverDrive) is intended for other industrial cameras. See page 1 for the full seven-SKU range (linear, ring, spot).

4 PROTECTIVE LENS COVER

Anodized-aluminum optics tube (BAM PC-VS-023 series) that shrouds the lens. Same Ø45 body, Ø40 inside, three tube lengths — **pick the cover by the length of your lens assembly**.

ORDER CODE	Ø × LENGTH	INSTALL LENGTH
BAM02NA	Ø45 × 54 mm	40 mm
BAM02W0	Ø45 × 83 mm	70 mm
BAM039R	Ø45 × 100 mm	86 mm

Connection: the light is driven from the BVS light port; connect it with a 0.3 m (1 ft) M12 cordset — Balluff **BCC05LR**. **Mounting:** a bracket to attach the light to the camera is **customer-supplied today**; a Balluff bracket is planned. Reference bracket CAD: 7200510716.STEP.