



# Basler ace 2 X – UV

Product presentation

**2D Product Systems - Product Management**

# UV Technology

## Product Information

**ace 2 X – UV  
with IMX487  
200-1000nm**



◀ Ultraviolet ▶

◀ Visible light ▶

◀ Infrared ▶

Wavelength

400nm

780nm

# ace 2 X – IMX 487 (UV)

## Product Information

new to the Portfolio



Lighting      Filters      Lens      Camera



Cables      PC Cards      Processing      Network & Peripheral Devices      Accessories



UV Lights      UV Filter      UV Lenses      ace 2 X UV with Sony IMX487



GigE cable  
USB3.0 cable  
Power-I/O cable      GigE Cards  
USB3.0      Pylon vTools      USB3.0 Hub  
Power Supply      Tripod Mount\*  
IP67 Housing  
etc.

# ace 2 X – IMX 487 (UV)

## Camera models



### 3 Models of Basler ace 2 X UV



a2A2840-48umUV	a2A2840-14gmUV	a2A2840-67g5mUV
109236	109237	109238
Sony IMX487		
Image size 2/3" (1:1 ratio)		
Resolution 2856 (H) × 2848 (V)		
Pixel Pitch 2.74µm × 2.74µm		
USB3 Interface	GigE Interface	5GigE Interface
48 frames per second	14 frames per second	67 frames per second
Wavelength Range 200 – 1000 nm		
Housing size: 29 x 29 x 42 mm <sup>3</sup>	Housing size: 29 x 29 x 55.5 mm <sup>3</sup>	Housing size: 29 x 29 x 55.5 mm <sup>3</sup>

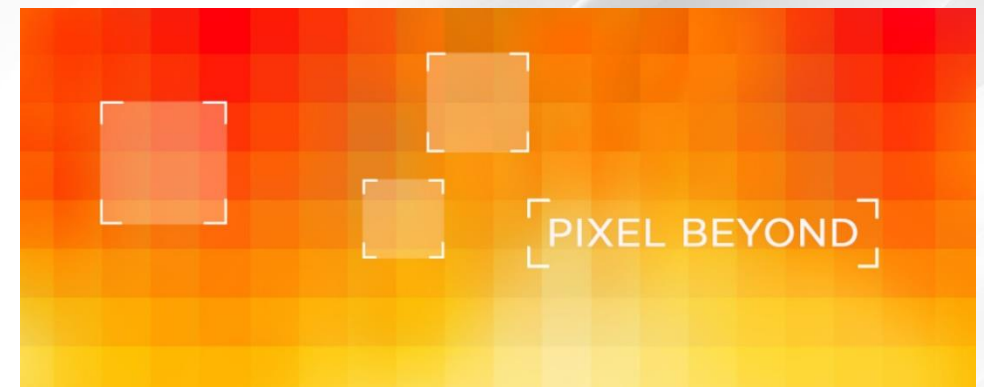
# ace 2 X – IMX 487 (UV)

## Feature Set



Pro Features	GigE	USB3.0	5GigE
Pixel Beyond	Yes	Yes	No*
Compression Beyond	Yes	Yes	No
Sequencer	Yes	Yes	Yes

\*will be added in a FW update  
later 2024



# ace 2 X – IMX 487 (UV)

Lights



## smart vision lights

wavelength  
365nm & 395nm

### RMX Ring Light

- Multiple Lens Configuration possible
- Multi-Drive
  - built-in driver for either continuous or overdrive modes
  - No external light controller required
- IP Class: 65



### LSR Linear Light

- Multiple Lens Configuration possible
- Multi-Drive
  - built-in driver for either continuous or overdrive modes
  - No external light controller required
- IP Class: 65



# ace 2 X – IMX 487 (UV)

## Lights



SAP No.	Basler Name	Type	DESCRIPTION	Release
2200002103	Smart Vision Light Bar LSR300-365	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002104	Smart Vision Light Bar LSR300-365-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002105	Smart Vision Light Bar LSR300-395	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002106	Smart Vision Light Bar LSR300-395-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002107	Smart Vision Light Bar LSR600-365	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002108	Smart Vision Light Bar LSR600-365-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002109	Smart Vision Light Bar LSR600-395	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002110	Smart Vision Light Bar LSR600-395-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002111	Smart Vision Light Bar LSR900-365	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002112	Smart Vision Light Bar LSR900-365-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002113	Smart Vision Light Bar LSR900-395	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002114	Smart Vision Light Bar LSR900-395-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002115	Smart Vision Light Bar LSR1200-365	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002116	Smart Vision Light Bar LSR1200-365-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 365nm UV	coming soon
2200002117	Smart Vision Light Bar LSR1200-395	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002118	Smart Vision Light Bar LSR1200-395-W	Bar	300mm Linear Light Sealed IP65 w/ Multi Drive and M12 connector 395nm UV	available
2200002119	Smart Vision Light Ring RMX140-365	Ring	140mm O.D. x 100mm I.D. (6"x4") Tapered Ring Light - 365nm UV w/ Silicone Lens	coming soon
2200002120	Smart Vision Light Ring RMX140-365-W	Ring	140mm O.D. x 100mm I.D. (6"x4") Tapered Ring Light - 365nm UV w/ Silicone Lens	coming soon
2200002121	Smart Vision Light Ring RMX140-395	Ring	140mm O.D. x 100mm I.D. (6"x4") Tapered Ring Light - 395nm UV w/ Silicone Lens	available
2200002122	Smart Vision Light Ring RMX140-395-W	Ring	140mm O.D. x 100mm I.D. (6"x4") Tapered Ring Light - 395nm UV w/ Silicone Lens	available

# ace 2 X – IMX 487 (UV)

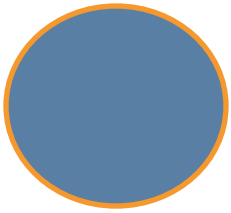
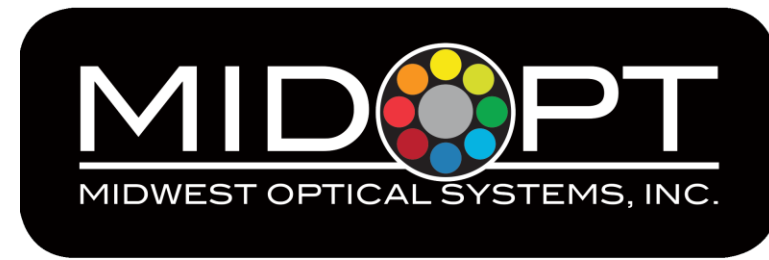
## Lights



SAP No.	Basler Name	Type	DESCRIPTION
2200002123	Smart Vision Lights Cable 5PM12-5	Cable	5 Pin 5 Meter Cable (16.4 feet)
2200002124	Smart Vision Lights Cable 5PM12-10	Cable	5 Pin 10 Meter Cable (32.8 feet)
2200002125	Smart Vision Lights Splitter 5PM12-2WS	Splitter	5 Pin 2 Way Splitter
2200002126	Smart Vision Lights Adapter ADP0002-KIT	Adapter	Universal Ring Light Camera Mounting Adapter
2200002127	Smart Vision Lights Mount BKT0030-KIT	Mount	RM Series Mounting Bracket Kit
2200002128	Smart Vision Lights LTF/LSRSTD-SHIPKIT	Screws	LSR Tslot comes with two T-bolts, two washers, and two nuts
2200002129	Smart Vision Lights Adapter SU30.5-46	Adapter	M46 step up adapter ring - Lens Thread Size 30.5, six M2 set screws & hex wrench
2200002130	Smart Vision Lights Adapter SU34-46	Adapter	M46 step up adapter ring - Lens Thread Size 34, six M2 set screws & hex wrench
2200002131	Smart Vision Lights Adapter SU35.5-46	Adapter	M46 step up adapter ring - Lens Thread Size 35.5, six M2 set screws & hex wrench
2200002132	Smart Vision Lights Adapter SU40.5-46	Adapter	M46 step up adapter ring - Lens Thread Size 40.5, six M2 set screws & hex wrench

# ace 2 X – IMX 487 (UV)

## Filter



Material	SAP	Useful Range	FWHM	Size
MidOpt Filter BP324-30.5	2200002152	290-365nm	105nm	M30.5x0.5
MidOpt Filter BP324-34	2200002153	290-365nm	105nm	M34x0.5
MidOpt Filter BP324-35	2200002154	290-365nm	105nm	M35.5x0.5
MidOpt Filter BP324-40.5	2200002155	290-365nm	105nm	M40.5x0.5
MidOpt Filter BP340-30.5	2200002156	315-365nm	80nm	M30.5x0.5
MidOpt Filter BP340-34	2200002157	315-365nm	80nm	M34x0.5
MidOpt Filter BP340-35	2200002158	315-365nm	80nm	M35.5x0.5
MidOpt Filter BP340-40.5	2200002159	315-365nm	80nm	M40.5x0.5
MidOpt Filter BP365-30.5	2200002160	335-400nm	80nm	M30.5x0.5
MidOpt Filter BP365-34	2200002161	335-400nm	80nm	M34x0.5
MidOpt Filter BP365-35	2200002162	335-400nm	80nm	M35.5x0.5
MidOpt Filter BP365-40.5	2200002163	335-400nm	80nm	M40.5x0.5

# ace 2 X – IMX 487 (UV)



## Lenses

- 4 new lenses from AZURE
  - suitable for UV applications



SAP #	Item #	IF / Image Circle	Focal Length (mm)	Iris Control	Iris Range	Distortion	Mount	Filter thread (mm)	Dimension
2200002148	AZURE-00202XZMUV-1	2/3"	25	Manual	F2.8-F22	<0.8%	C	M40.5x0.5	φ45x60.9mm
2200002149	AZURE-00302XZMUV-1	2/3"	35	Manual	F2.8-F22	<0.2%	C	M30.5x0.5	φ48x46.1mm
2200002150	AZURE-00503XZMUV-1	2/3"	50	Manual	F2.8-F22	<0.06%	C	M34x0.5	φ52x73.4mm
2200002151	AZURE-00705XZMUV-1	2/3"	75	Manual	F2.8-F22	<0.82%	C	M35.5x0.5	φ52x80.1mm

# Questions & Answers

