



Index

Choosing the Right Server for You	3
Choose your server	4
reActor xr3Black	5
reActor xr3Black Live	6
reActor rt3Black	7
reActor rt3Black Live	8
reActor v3Black	9
EasyOut Cards	10
Double xr2Black	11
Double rt2Black	12
Double v2Black	13
Unit xr2	14
Unit rt2	15
Unit v2	16
Mini	17
Expansion Modules	18
Iris LightAct	19

Choosing the Right Server for You

When we designed our servers, we took great care to give you plenty of options. This means you will always be able to find a server that's just perfect for your project. On this page, we'll go through the steps that will help you choose the right server for you.

What kind of content will you play?

- If you will only play a few video files and no real-time content, you can use a Mini server.
- If you will play a lot of video files of higher resolutions and no real-time content, go for a **v** base configuration.
- If you will play video files and render reasonably demanding real-time content, go for an **rt** base configuration.
- If you will render extremely heavy real-time content, go for an **xr** base configuration.

How many Expansion Modules do you need?

Expansion Modules add additional functionalities to your server. The number of them that you can add to any particular server depends on available PCIe slots in the server and the available physical space.

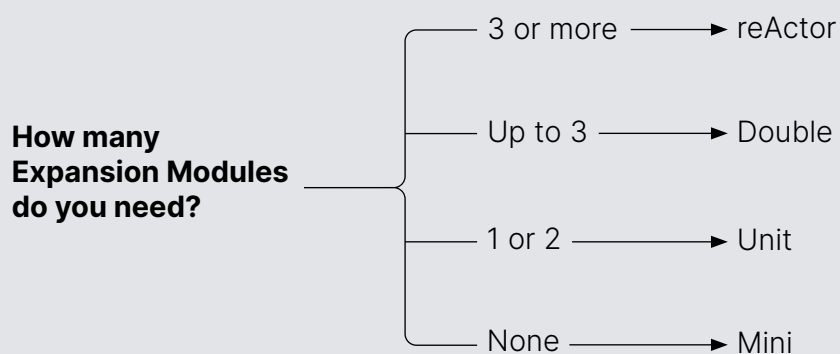
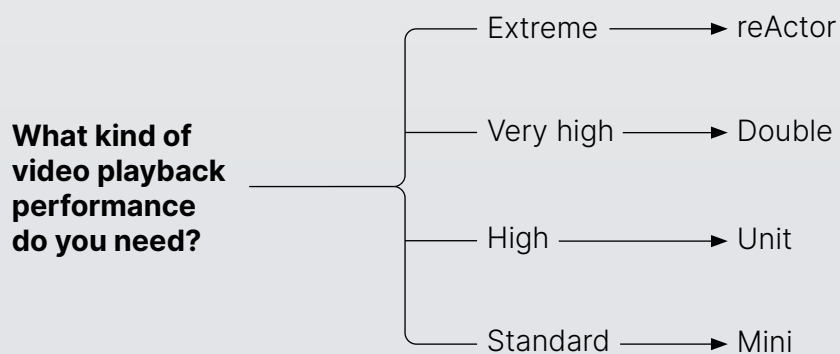
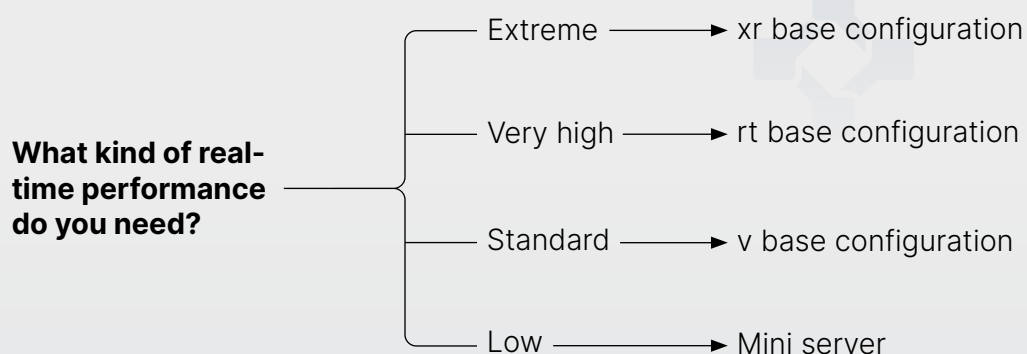
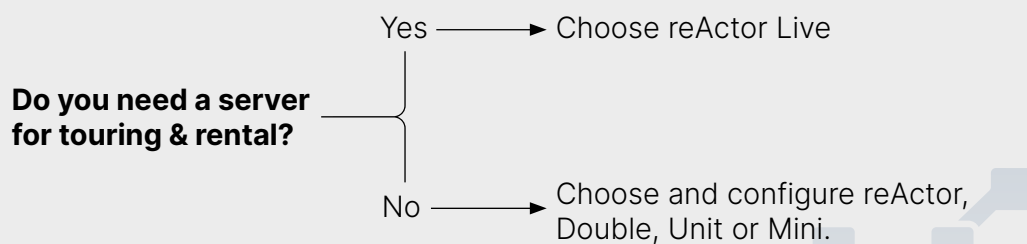
Refer to the Expansion Module page for more information.

Chassis requirements

- If you require the server to be rugged and road-ready, have industrial connectors in the back, a touch screen in the front and other advantages, then go for a reActor server.
- If you require the server to be as compact as possible, then choose either a Mini, Unit or a Double server.

Choose your server

Follow these decision trees to find the perfect server for you.



reActor xr3Black

A machine that doesn't make any compromises!

Created specifically for the most demanding real-time content, reActor xr3Black features the latest RTX 6000 Blackwell GPU, massive amounts of RAM combined with fast disk read speeds.

The machine that makes you ready for the future.



Physical characteristics

Dimensions without handles	Depth: 600 mm, Width: 440 mm, Height: 178 mm
Dimensions with handles	Depth: 640 mm, Width: 480 mm, Height: 178 mm
Weight	~21-24 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~290 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x EasyOut DP by default
GPU	NVIDIA RTX Pro 6000 Blackwell Workstation Edition
Storage	1 TB SSD system drive + 4 x hot-swappable 1.9 TB NVMe data drives in RAID 10 array in an easily accessible front bay
RAM	256 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60 Hz
Power consumption	< 1000 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

reActor xr3Black Live

reActor rt3Black Live is a server built on top of reActor xr3Black base configuration with Video I/O, Audio I/O, Sync and Net Expansion Modules.

A machine for the best real-time rendering power available today combined with extremely high video playback.

With reActor xr3Black Live you will get the best hardware platform to run the most advanced and complex shows imaginable.



Physical characteristics

The same as reActor xr3Black.

Software specifications

The same as reActor xr3Black.

Base hardware specifications

Video outputs	4 x EasyOut DP by default
GPU	NVIDIA RTX Pro 6000 Blackwell Workstation Edition
Storage	1 TB SSD system drive + 4 x hot-swappable 1.9 TB NVMe data drives in RAID 10 array in an easily accessible front bay
RAM	256 GB
Ethernet	4 × 10 GBit
Power supply	100-240 V AC 50/60 Hz
Power consumption	< 1000 W
Video I/O	VIO-SDI (see Expansion Modules for more information)
Audio I/O	AIO-XLR (see Expansion Modules for more information)
Frame lock & Genlock	Yes
Warranty	2-year back-to-base warranty (extension possible)

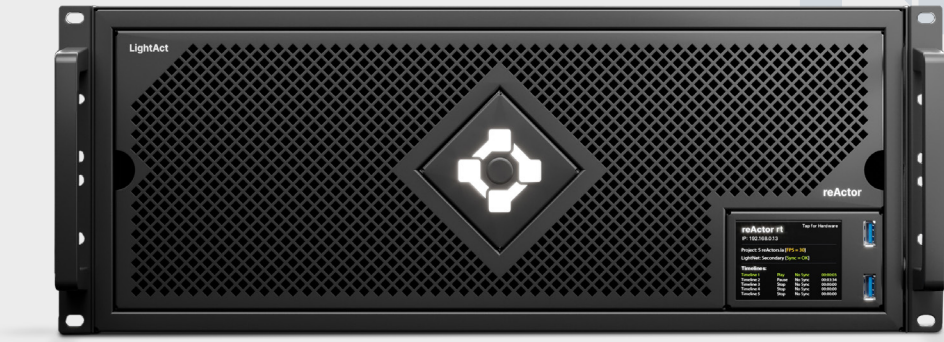
Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

reActor rt3Black

Designed with real-time content in mind, reActor rt3Black is a ruggedized server with massive real-time rendering capabilities.

It combines them with all the pre-rendered content playback performance you will ever need.

Render beautiful Unreal Engine or Notch pixels with high frame rates and push them exactly where you want them.



Physical characteristics

Dimensions without handles	Depth: 600 mm, Width: 440 mm, Height: 178 mm
Dimensions with handles	Depth: 640 mm, Width: 480 mm, Height: 178 mm
Weight	~21-24 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~290 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x EasyOut DP by default
GPU	NVIDIA RTX Pro 5000 Blackwell
Storage	1 TB SSD system drive + 4 x hot-swappable 1.9 TB NVMe data drives in RAID 10 array in an easily accessible front bay
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 1000 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

reActor rt3Black Live

reActor rt3Black Live is a server built on top of reActor rt3Black base configuration with Video I/O, Audio I/O, Sync and Net Expansion Modules.

This gives you massive amounts of real-time rendering power, extremely high video playback performance and all the inputs and outputs you might need in a live event environment.

A perfect machine for a wide range of live events.



Physical characteristics

The same as reActor rt3Black.

Software specifications

The same as reActor rt3Black.

Base hardware specifications

Video outputs	4 x EasyOut DP by default
GPU	NVIDIA RTX Pro 5000 Blackwell
Storage	1 TB SSD system drive + 4 x hot-swappable 1.9 TB NVMe data drives in RAID 10 array in an easily accessible front bay
RAM	128 GB
Ethernet	4 x 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 1000 W
Video I/O	VIO-SDI (see Expansion Modules for more information)
Audio I/O	AIO-XLR (see Expansion Modules for more information)
Frame lock & Genlock	Yes
Warranty	2-year back-to-base warranty (extension possible)

reActor v3Black

Engineered for high-performance playback of pre-rendered content with massive resolutions, uncompressed image sequences or several NDI streams in a single or multi-server setup.

Enclosed in a ruggedized chassis with all internal components on industrial shock absorbers and lockable connectors, it is a perfect tool for breath-taking live events and fixed installations.



Physical characteristics

Dimensions without handles	Depth: 600 mm, Width: 440 mm, Height: 178 mm
Dimensions with handles	Depth: 640 mm, Width: 480 mm, Height: 178 mm
Weight	~21-24 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~290 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x EasyOut DP by default
GPU	NVIDIA RTX Pro 4000 Blackwell
Storage	1 TB SSD system drive + 4 x hot-swappable 1.9 TB NVMe data drives in RAID 10 array in an easily accessible front bay
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 1000 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

EasyOut Cards

EasyOut cards are video output slide-in cards installed in the back of every reActor. Every EasyOut card can output 1 × 4K at 60FPS.

They come in 2 versions: DisplayPort and HDMI and besides video format conversion they also take care of signal amplification so that it's suitable for complex signal paths typical in a live event environment.

By default, every reActor comes with 4 DisplayPort EasyOut cards in the back.

EasyOut DP



Interface	DisplayPort 1.2
Resolution	Up to 4K
Framerate	Up to 60Hz
Supports	All reActor servers
Width x Height	62mm x 24mm

EasyOut HDMI



Interface	HDMI 2.0
Resolution	Up to 4K
Framerate	Up to 60Hz
Supports	All reActor servers
Width x Height	62mm x 24mm

Double xr2Black

Double xr2Black is a 2U server with massive real-time rendering capabilities, provided by the latest generation of GPUs by NVIDIA.

On top of that, you can also include several Expansion Modules such as Sync cards, video or audio IO, faster network cards and others.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 88 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 88 mm
Weight	~13-15 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~190 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX Pro 6000 Max-Q Blackwell Workstation Edition
Storage	1 TB SSD system drive + 2 x hot-swappable 1.9 TB NVMe data drives in RAID 1 in an easily accessible rear bay
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz power supply (redundant optional)
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Double rt2Black

Double rt2Black is a perfect server for general media server applications where both video playback, as well as real-time content, are required. It includes the latest generation of NVIDIA GPUs giving you a rock solid real-time rendering capability.

A media server for a wide range of applications.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 88 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 88 mm
Weight	~13-15 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~190 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX Pro 5000 Blackwell
Storage	1 TB SSD system drive + 2 x hot-swappable 1.9 TB NVMe data drives in RAID 1 in an easily accessible rear bay
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz power supply (redundant optional)
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Double v2Black

Double v2Black is an ideal machine for video playback in a variety of applications. Its 2U housing gives you ample space for Expansion Modules such as a second GPU, Sync cards, video or audio IO, faster network cards or others.

Double v2Black is the best solution for video-intensive installations where Expansion Modules are required.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 88 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 88 mm
Weight	~13-15 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~190 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX Pro 4000 Blackwell
Storage	1 TB SSD system drive + 2 x hot-swappable 1.9 TB NVMe data drives in RAID 1 in an easily accessible rear bay
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz power supply (redundant optional)
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Unit xr2

We packed an incredible amount of rendering power into a compact 1U product.

Engineered for installations where size and budget are limited, Unit xr2 gives you extreme real-time rendering power in the smallest package.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 44 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 44 mm
Weight	~9-10 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~140 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX 6000 Ada
Storage	2 TB internal M.2 NVMe data drive
RAM	128 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Unit rt2

Don't let the small size lure you into thinking you cannot get some serious real-time pixels out of Unit rt2.

It includes powerful NVIDIA GPUs and Xeon CPU so rest assured it can handle almost anything you'll throw at it.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 44 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 44 mm
Weight	~9-10 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~140 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

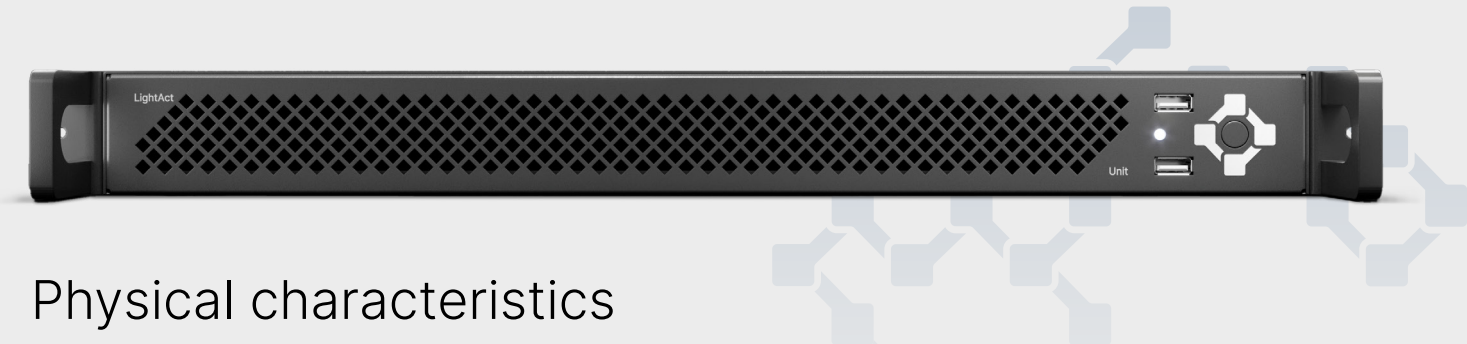
Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX 5000 Ada
Storage	2 TB internal M.2 NVMe data drive
RAM	128 GB
Ethernet	2 × 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Unit v2

Unit v2 is all about high-quality video playback while at the same time keeping the budget low.

Equipped with a fast NVMe drive and carefully selected CPU and GPU, it is a perfect tool for video-heavy projects where rack space is at a premium.



Physical characteristics

Dimensions without handles	Depth: 446 mm, Width: 432 mm, Height: 44 mm
Dimensions with handles	Depth: 486 mm, Width: 482 mm, Height: 44 mm
Weight	~9-10 kg
Shipping box dimensions	Depth: ~730 mm, Width: ~580 mm, Height: ~140 mm

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x DisplayPort 1.4 (max 5K @ 60FPS each)
GPU	NVIDIA RTX 4000 Ada
Storage	2 TB internal M.2 NVMe data drive
RAM	64 GB
Ethernet	2 x 10 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 800 W
Warranty	2-year back-to-base warranty (extension possible)

Check out the Expansion Modules for additional functionalities you can add to the Base Specification.

Mini

Despite being the smallest member of LightAct's servers, Mini still packs a powerful punch.

Equipped with the latest generation of Intel's Core CPUs and NVIDIA's small form factor GPUs, it is a perfect solution for installations where budget and size are limited.



Physical characteristics

Dimensions	Depth: 232 mm, Width: 224 mm, Height: 42 mm
Weight	~2,2 kg (~3,0 kg with PSU)
Shipping box dimensions	Depth: ~450 mm, Width: ~320 mm, Height: ~120 mm
Accessories	External power supply unit, rack mount for 2 Minis

Software specifications

OS	Windows 11 IoT Enterprise LTSC 2024
Software	The entire LightAct software suite
LightAct license	Ultimate or Partner

Base hardware specifications

Video outputs	4 x mini DisplayPort 1.4
GPU	NVIDIA T1000
Storage	1 TB M.2 NVMe data drive
RAM	32 GB
Ethernet	2 × 1 GBit
Power supply	100-240 V AC 50/60Hz
Power consumption	< 150 W
Warranty	2-year back-to-base warranty (extension possible)

This server cannot be upgraded with Expansion Modules.

Expansion Modules

Most LightAct servers can be upgraded with Expansion Modules. These modules add different functionalities to a server. By combining different modules, you can create the perfect server for your project.

Types

GUI	2 additional DisplayPorts for GUI
VIO-SDI	12-channel 3G/12G SDI. 8 inputs (6*12G and 2*3G), 4 bi-directional channels, 2 genlock reference input, one genlock reference output. Micro BNC connectors.
VIO-FLEX	4 USB-C video inputs/outputs (with FLEX technology)
AIO-XLR	2 x MIDI, 2 XLR Audio Out, 2 XLR Audio In
Sync	Genlock & Frame lock
Net	2 × 10 GBit

Contact us if you would like additional modifications of your server.

Combinations

With every server model, you can choose from various Storage options. In some models, the media drives are hot-swappable and easily accessible, so you can upgrade them by yourself as well. Please refer to individual datasheets for more information.

The number and type of other Expansion Modules you can add to your server are determined by the server model and the number and type of available PCIe slots in the server. Check the list below for details on how many additional Expansion Modules you can add to a particular server model.

reActor 3	All available Expansion Modules + various storage options.
Double 2	Up to three Expansion Modules + various storage options.
Unit rt2 and Unit xr2	One Expansion Module + various storage options.
Unit v2	Up to two Expansion Modules + various storage options.
Mini	Various storage options, but no additional Expansion Modules.

Iris LightAct

Iris LightAct cameras consist of one or several power-over-ethernet machine vision cameras equipped with high-quality lenses. Every camera and lens combination has been carefully pre-calibrated by us for maximum precision.

The cameras are connected to the network and their triggering is orchestrated by LightAct. You can choose between several Iris kits with different numbers of cameras and lens types. All Iris kits include a camera body, one or several lenses, a Power-over-Ethernet adapter and a GorillaPod housed in a rugged protective case.



Characteristics

Dimensions	Depth: 55 mm, Width: 29.5 mm, Height: 29 mm
Resolution	5.1 MP, 2464 (H) x 2056 (V)
Data interface	Ethernet
Max framerate	23.7 FPS at full resolution
Power consumption	2.4W at PoE
Weight	80 g
Supported lens	3.5 mm, 8 mm, 12 mm, fisheye
Warranty	3 years Return to base
Case	Hard protective watertight case with foam interior
Accessories	30W PoE injector with EU plug power cable

Iris also works with OptiTrack cameras and active and passive markers. More information available on our webpage.



For more information please contact us
or visit lighttact.com.