EXASCEND

cinema.exascend.com

Professional Cinematography

Product Guide

Portable SSD | Custom Media | CFexpress Type A | CFexpress Type B
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About Exascend

Exascend is an engineering-driven leader in cinematography and photography flash storage solutions, providing products designed for true cinematography professionals. Our goal is to allow our users to reach the pinnacle of artistic expression and commercial success with storage products that allow for limitless expression.

We are combining our expertise in rugged industrial-grade SSDs and extreme-performance enterprise SSDs to craft unrivaled cinematography storage solutions that excel in sustained performance, reliability and technological prowess. Working together with leading cinematography equipment manufacturers and some of the best people in the industry, we have created a product portfolio that brings the best out of any camera system and allows professionals to tackle even the most demanding shots.

With Exascend's storage solutions, your perfect shot is in safe hands. Every time.

Inspiration to Innovation

A Complete Cinematography Workflow Solution

Modern professional video cameras produce staggering amounts of data at a pace that is difficult to put into perspective.

8K video capture at 60 FPS requires capturing the color of over 35 million pixels every second. High-resolution and high-FPS capture require massive capacities in the tiniest form factors. Unwavering performance is key.

More than just storage

Besides memory cards, we design blazing-fast card readers as well as portable SSDs to help filmmakers enter their post-production workflow smoothly.

These external SSDs and some of the premium readers transfer data at 20 or even 40 Gbps – the highest theoretical speed for a USB bus interface.

Robust & rugged

Professional equipment needs to excel in challenging conditions, whether it is extreme temperatures, high humidity, high elevations, or mechanical stress.

Some of our cinematography storage solutions are IP68 and/or IP67-compliant, allowing you to film in even the harshest environments.

Engineered to perfection

Our CFexpress cards, Portable SSDs and all cinematography product firmware are developed in-house by our world-class R&D team.

As a result, we do not rely on turnkey solutions or simply assemble off-the-shelf components – we create uniquely capable products through full control over every variable.
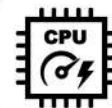
Our secret recipe

Adaptive Thermal Control™

Exascend's storage products are designed for the toughest industrial applications and are hardened against environmental threats – enabling high performance and reliability anywhere.

SuperCruise™

A unique firmware algorithm developed by Exascend that optimizes the ratio of free block availability and usage while prioritizing and regulating response time, thus ensuring consistent high performance without any shot-ruining stuttering or frame drops.

SmartStream™

SmartStream™ enhances power efficiency and energy effectiveness, resulting in more stable write performance and extended battery life.

Automate your filmmaking workflow

Production

For filming, playback and data management

Photography & videography

- High read & write performance
- Storage space & reliability
- Thermally optimized
- Extreme ruggedness

Playback

- High sequential read speed
- Large capacity

Data management

- Portability & speed
- Easy backup
- Data integrity
- Data recovery service

Taking care of your storage needs every step of the way

Exascend's cinematography storage solutions cover all the professionals' storage requirements from production through post-production. We streamline your workflow, so you can focus on what you do best.

Our award-winning product line includes VPG400- and VPG200-certified CFexpress cards and Red Dot-winning Portable SSD, some rated IP67/IP68 for complete environmental protection.

...from production through post-production

Post-production

For file offload, editing, and archiving

Offload & editing

· Ruggedized portable SSD
· Extremely fast readers
· Custom storage with integrated USB
  20 Gbps reader
· Dual-slot readers

Archiving

· SSDs for NAS
· Technologies for data integrity

Keeping you on top of your creative game wherever you go

Having the ability to edit directly from an external storage device is highly advantageous, especially if you are editing on a computer or laptop without enough RAM or CPU power.

Exascend develops ultra-fast portable SSDs, custom media, as well as readers with various interface options to meet your needs. Our internal SSDs available in 2.5", M.2 and U.2 form factors are fully compatible with NAS systems from manufacturers such as QNAP and Accusys.

Portable SSD

Powered by USB Type-C, the Explorer and Gecko Portable SSDs can transmit files at a whirlwind speed of 20Gbps — a high-performing and ruggedized storage solution always ready for action.

reddot winner 2023

Explorer

Key Features

- Up to 8TB capacity
- Up to 20Gbps sustained write
- IP68-rated against water & dust
- 5-year warranty & data recovery service

Ordering Information

EXU2M6E08TP0C	8TB
EXU2M6E04TP0C	4TB
EXU2M6E02TP0C	2TB
EXU2M6E01TP0C	1TB

Specifications

Edition	Explorer Portable SSD
Capacity	1TB – 8TB
Dimensions	115 mm x 57 mm x 18 mm
Max. weight	201g (incl. rubber case)
IP rating	IP68
Max. read/write	8TB 2,000/2,000 MB/s 4TB 2,000/2,000 MB/s 2TB 1,700/1,700 MB/s 1TB 1,700/1,700 MB/s
Sustained read/write	8TB 2,000/2,000 MB/s 4TB 2,000/2,000 MB/s 2TB 1,700/1,700 MB/s 1TB 1,700/1,700 MB/s
Operating temp.	-10–70 °C
Warranty	5-year limited

Gecko

Key Features

- Up to 8TB capacity
- Up to 20Gbps sustained write
- Quick release design for easy & secure attachment to your camera cage
- IP68-rated against water & dust
- 5-year warranty & data recovery service

Ordering Information

EXU2M6G08TP0C	8TB
EXU2M6G04TP0C	4TB
EXU2M6G02TP0C	2TB
EXU2M6G01TP0C	1TB

Specifications

Edition	Explorer/Gecko Portable SSD
Capacity	1TB – 8TB
Dimensions	115 mm x 57 mm x 18 mm
Max. weight	199g (incl. rubber case)
IP rating	IP68
Max. read/write	8TB 2,000/2,000 MB/s 4TB 2,000/2,000 MB/s 2TB 1,700/1,700 MB/s 1TB 1,700/1,700 MB/s
Sustained read/write	8TB 2,000/2,000 MB/s 4TB 2,000/2,000 MB/s 2TB 1,700/1,700 MB/s 1TB 1,700/1,700 MB/s
Operating temp.	-10–70 °C
Warranty	5-year limited

Solid-State Storage

Custom Media

Z Blade Pro   Z Blade

Key Features

- Certified for Z CAM E2-F6 Pro
- Up to 4TB capacity
- Burst read/write: 2,400/1,400 MB/s
- 4K random read/write: 200K/180K IOPS
- Handles ProRes 422 HQ, 4K 120FPS & 6K 60 FPS
- Integrated 20Gbps USB reader
- 5-year warranty & data recovery service

Ordering Information

EXP4M6G004TB	4TB
EXP4M6G002TB	2TB
EXP4M6G001TB	1TB

Specifications

Edition	Z Blade	Z Blade Pro
Interface	PCIe Gen4x4 / Gen4x2 / Gen3x4	
Capacity	1TB – 2TB	4TB
Max. read/write	4TB 2,400/1,400 MB/s 2TB 2,400/1,400 MB/s 1TB 2,400/1,400 MB/s	
4K random read/write	4TB 200K/180K IOPS 2TB 200K/180K IOPS 1TB 200K/180K IOPS	
Operating temp.	0–70 °C	
Warranty	5-year limited	

CFexpress Type A

Exascend's CFexpress Type A memory card combines cinema-grade performance with the compact CFexpress Type A form factor. Optimized for professional photography and cinematography, the CFexpress Type A card features patented technologies to ensure top-level stability without any frame drops.

Essential

Key Features

- VPG200-certified
- Up to 1TB capacity
- Burst read/write: up to 900/850 MB/s
- Sustained read/write: up to 900/850 MB/s
- 4K random read/write: up to 65K/155K IOPS
- LDPC high error-correcting capability
- Fully compatible with Sony α1, α7S III, α7 IV, FX3, and FX6
- 5-year warranty & data recovery service

Ordering Information

EXPC3EA001TB	1TB
EXPC3EA480GB	480GB
EXPC3EA360GB	360GB
EXPC3EA240GB	240GB
EXPC3EA180GB	180GB
EXPC3EA120GB	120GB

Specifications

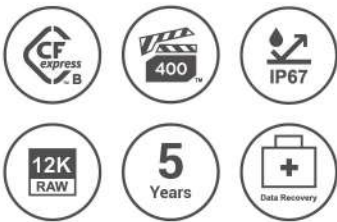| Form factor	CFexpress Type A
Capacity	120GB – 1TB
Max. read/write	1TB 900/850 MB/s 480GB 900/800 MB/s 360GB 900/800 MB/s 240GB 800/700 MB/s 180GB 800/700 MB/s 120GB 800/700 MB/s
Sustained read/write	1TB 900/850 MB/s 480GB 900/700 MB/s 360GB 900/700 MB/s 240GB 800/400 MB/s 180GB 800/450 MB/s 120GB 800/550 MB/s
Operating temp.	-10–70 °C
Warranty	5-year limited

CFexpress Type B

With Exascend's CFexpress Type B cards, you get extremely high-performance storage with over 300 percent faster read and write speeds than comparable CFast cards. These cards feature Exascend's trademark sustained performance-enhancing technologies and unique hardware design with the world's fastest mass-market card type – providing ample performance to take on the pinnacle of cinematography.

Nitro

Nitro, our flagship CFexpress series, features incredible VPG400-certified sustained performance, IP67-rated ruggedness and a next-generation CFexpress controller. This is the future of cinematography storage.

Key Features

- VPG400-certified
- Up to 1TB capacity
- Burst read/write: up to 1,850/1,700 MB/s
- Sustained read/write: up to 1,850/1,700 MB/s
- LDPC high error-correcting capability
- IP67-rated against water & dust
- 5-year warranty & data recovery service

Ordering Information

EXPC3N001TB	1TB
EXPC3N512GB	512GB

Specifications

Form factor	CFexpress Type B	
Capacity	512GB – 1TB	
Max. read/write	1TB 512GB	1,850/1,700 MB/s 1,850/1,700 MB/s
Sustained read/write	1TB 512GB	1,850/1,700 MB/s 1,850/1,700 MB/s
Operating temp.	-10–70 °C	
Warranty	5-year limited	

Vigor

Key Features

- Optimized for extended recording
- Low heat & low power draw
- Up to 1TB capacity
- Burst read/write: up to 1,800/1,700 MB/s
- Sustained read/write: up to 1,800/1,700 MB/s
- 4K random read/write: up to 300K/180K IOPS
- LDPC high error-correcting capability
- 5-year warranty & data recovery service

Ordering Information

EXPC3W001TB	1TB
EXPC3W512GB	512GB
EXPC3W256GB	256GB

Specifications

Form factor	CFexpress Type B
Capacity	256GB – 1TB
Max. read/write	1TB 1,800/1,700 MB/s 512GB 1,800/1,700 MB/s 256GB 1,800/1,700 MB/s
Sustained read/write	1TB 1,800/1,700 MB/s 512GB 1,800/1,700 MB/s 256GB 1,800/900 MB/s
Operating temp.	-10–70 °C
Warranty	5-year limited

Essential

Key Features

- Up to 2TB capacity
- Burst read/write: up to 1,800/1,700 MB/s
- Sustained read/write: up to 1,800/1,400 MB/s
- LDPC high error-correcting capability
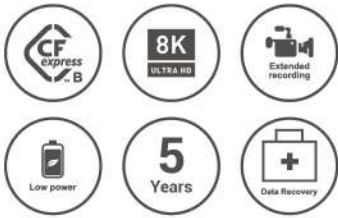- 5-year warranty & data recovery service

Ordering Information

EXPC3E002TB	2TB
EXPC3E001TB	1TB
EXPC3E512GB	512GB
EXPC3E256GB	256GB
EXPC3E128GB	128GB

Specifications

Form factor	CFexpress Type B
Capacity	128GB – 2TB
Max. read/write	2TB 1,800/1,700 MB/s 1TB 1,800/1,700 MB/s 512GB 1,800/1,700 MB/s 256GB 1,800/1,700 MB/s 128GB 1,800/1,400 MB/s
Sustained read/write	2TB 1,800/1,400 MB/s 1TB 1,800/1,400 MB/s 512GB 1,800/1,400 MB/s 256GB 1,800/900 MB/s 128GB 1,200/450 MB/s
Operating temp.	-10–70 °C
Warranty	5-year limited

Element

Key Features

· Up to 1TB capacity
· Burst read/write: up to 1,800/1,700 MB/s
· Sustained read/write: up to 1,800/1,400 MB/s
· LDPC high error-correcting capability
· 3-year warranty

Ordering Information

EXPC3S001TB	1TB
EXPC3S512GB	512GB
EXPC3S256GB	256GB

Specifications

Form factor	CFexpress Type B
Capacity	256GB – 1TB
Max. read/write	1TB 1,800/1,700 MB/s 512GB 1,800/1,700 MB/s 256GB 1,800/1,700 MB/s
Sustained read/write	1TB 1,800/1,400 MB/s 512GB 1,800/1,400 MB/s 256GB 1,800/1,400 MB/s
Operating temp.	-10–70 °C
Warranty	3-year limited

Card Storage

CFast

Exascend's CFast cards combine our enterprise storage expertise with patented technologies to provide optimal performance in photo and cinematography. They deliver the industry's highest performance and ensure that even long shoots are perfectly recorded without any performance hiccups. The result is a uniquely competent lineup of CFast for any application.

Essential

- CFast 2.0
- 4K ULTRA HD
- 5 Years
- Data Recovery

Key Features

- Up to 1TB capacity
- Burst read/write: up to 550/530 MB/s
- Sustained read/write: up to 520/520 MB/s
- 4K random read/write: up to 85K/70K IOPS
- Operating temp.: -5–70 °C
- 5-year warranty

Ordering Information

EXSD3X001TB	1TB
EXSD3X512GB	512GB
EXSD3X256GB	256GB
EXSD3X128GB	128GB

Z CAM

- CFast 2.0
- 4K ULTRA HD
- 5 Years
- Data Recovery

Key Features

- For Z CAM E2 series
- Up to 1TB capacity
- Burst read/write: up to 550/530 MB/s
- Sustained read/write: up to 520/500 MB/s
- Operating temp.: -5–70 °C
- 5-year warranty

Ordering Information

EXSAM3L001TVDC2C00	1TB
EXSAM3L512GVCC2C00	512GB
EXSAM3L256GVCC2C00	256GB
EXSAM3L128GV1C2C00	128GB

Archon for RED

We're excited to bring you our industry-leading CFexpress technology to RED professionals and the cutting edge of cinematography. Engineered exclusive for RED V-RAPTOR, meet Exascend Archon CFexpress.

RED APPROVED

RED APPROVED

Archon CFexpress

CFexpress B | 8K ULTRA HD | 5 Years | Data Recovery

Key Features

- RED-approved storage media for RED V-RAPTOR, V-RAPTOR XL & KOMODO-X
- 1TB – 2TB capacity
- Burst read/write: up to 1,700/1,600 MB/s
- Compatible with Canon EOS 1DX MKIII, EOS Mark III, EOS R5; Nikon D6, Z6, Z7; Panasonic Lumix S1, S1R, DC-51; and more
- 5-year warranty & data recovery service

Ordering Information

EXPC3E002TBI	2TB
EXPC3E001TBI	1TB

Archon CFast

CFast 2.0 | 4K ULTRA HD | 5 Years | Data Recovery

Key Features

- RED-approved storage media for RED KOMODO 6K
- 512GB – 1TB capacity
- Burst read/write: up to 560/500 MB/s
- 5-year warranty & data recovery service

Ordering Information

EXSC3X001TB	1TB
EXSC3X512GB	512GB

SDXC

Exascend's V90-rated UHS-II Catalyst and Essential cards guarantee a minimum video write speed of 90 MB/s, ideal for capturing frictionless 4K RAW and 8K videos.

Catalyst

SDXC II · V90 · LIFE TIME

Key Features

- SDXC V90
- UHS-II interface
- Up to 128GB capacity
- Burst read/write: up to 300/280 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX128GSDU2	128GB
EX64GSDU2	64GB

Essential

SDXC II · V90 · LIFE TIME

Key Features

- SDXC V90
- UHS-II interface
- Up to 256GB capacity
- Burst read/write: up to 300/260 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX256GSDU2-S	256GB
EX128GSDU2-S	128GB
EX64GSDU2-S	64GB

Catalyst

SDXC I · V60 · LIFE TIME

Key Features

- SDXC V60
- UHS-II interface
- Up to 512GB capacity
- Burst read/write: up to 280/180 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX512GSDV60	512GB
EX256GSDV60	256GB
EX128GSDV60	128GB

Catalyst

Key Features

- SDXC V30
- UHS-I interface
- Up to 256GB capacity
- Burst read/write: 180/150 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX256GSDU1	256GB
EX128GSDU1	128GB
EX64GSDU1	64GB

Essential

Key Features

- SDXC V30
- UHS-I interface
- Up to 128GB capacity
- Burst read/write: 170/140 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX128GSDU1-S	128GB
EX64GSDU1-S	64GB

Specifications

	V90	V90	V60	V30	V30
Series	Catalyst	Essential	Catalyst	Catalyst	Essential
Interface	UHS-II			UHS-I	
Capacity	64GB – 128GB	64GB – 256GB	128GB – 512GB	64GB – 256GB	64GB – 128GB
Max. read/write	300/280 MB/s	300/260 MB/s	512GB: 280/150 MB/s 256GB: 280/180 128GB: 280/100	180/150 MB/s	170/140 MB/s
Operating temp.	-25–85 °C				
Warranty	Limited lifetime				

microSDXC

Certified V30 for sustained write speed, Catalyst & Element microSD cards can handle 4K RAW video capture flawlessly. Catalyst microSD cards are A2-rated for outstanding application performance and easy storage expansion for your smartphones, gadgets and game consoles.

Catalyst

microSDXC I | V30 | A2 | LIFE TIME

Key Features

- Up to 1TB capacity
- Reliable 4K UHD video capture with V30
- High IOPS and fast app launch with A2
- Burst read/write: up to 175/150 MB/s
- Compatible with dash cams, home surveillance cams, drones, and game consoles
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX1TUSDU1	1TB
EX512GUSDU1	512GB
EX256GUSDU1	256GB
EX128GUSDU1	128GB
EX64GUSDU1	64GB

Essential

microSDXC I | V30 | A1 | LIFE TIME

Key Features

- 128GB capacity
- Reliab le 4K UHD video capture with V30
- A1-rated for high application performance
- Burst read/write: up to 100/40 MB/s
- Operating temp.: -25–85 °C
- Lifetime warranty

Ordering Information

EX128GUSDA1	128GB

Recommended Application

Card reader

The CFexpress & CFast readers from Exascend ensure speedy offloading of footage between your devices so you won't waste any time waiting. Going from filming to post-production has never been easier.

Essential 4-in-1 reader

10 Gbps

2 Years

Key Features

- Supports CFexpress Type B, SD, microSD, SD Express
- Magnetic card reader that snaps on easily to laptops and smartphones
- Dimensions: 57.7mm x 54.5mm x 15mm
- USB 3.2 Gen 2
- microSD to SD adapter included
- Up to 10 Gbps transfer
- Operating temp.: -10–50°C
- 20 Gb USB-C & USB-A cable included
- 2-year warranty

Ordering Information

EXCRFBS1

CFexpress Type B reader

20 Gbps

2 Years

Key Features

- Dimensions: 99.8mm x 58.5mm x 18mm
- USB 3.2 Gen 2 x2
- Up to 20 Gbps transfer
- Operating temp.: -10–50°C
- USB-C & USB-A cables included
- 2-year warranty

Ordering Information

EXCRCFX2

CFexpress Type A reader

10 Gbps   **2** Years

Key Features

- Dimensions: 67.5mm x 74mm x 14mm
- USB 3.2 Gen 2 x2
- Up to 10 Gbps transfer
- Operating temp.: -10–50°C
- USB-C & USB-A cables included
- 2-year warranty

Ordering Information

EXCRCFA1

CFast 2.0 reader

10 Gbps   **2** Years

Key Features

- Dimensions: 60.6mm x 62.6mm x 15.3mm
- USB 3.2 Gen 2 x2
- Up to 10 Gbps transfer
- Operating temp.: -10–50°C
- USB-C & USB-A cables included
- 2-year warranty

Ordering Information

EXCRCFT1

SD / microSD reader

2 Years

Key Features

- Dimensions: 54mm x 33.5mm x 9mm
- USB 3.2 Gen 1
- SD & microSD dual slot
- UHS-II: up to 300 MB/s
- UHS-I: up to 180 MB/s
- Operating temp.: 0–60°C
- USB Type-A connector
- 2-year warranty

Ordering Information

EXCRSDU2

Compatibility

Compatible Brands

Accusys
The RAID Architects

ATOMOS

Blackmagicdesign

Canon

DJI

FUJIFILM

HASSELBLAD

Leica

LUMIX

Nikon

PHASEONE

QNAP

RED

SIGMA

SONY

Z CAM

For more compatibility information, visit
https://cinema.exascend.com/compatibility/

Exascend Ecosystem

Media storage

Media transfer & offload

Postproduction storage

EXASCEND

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