



BarnfindTechnologies

It's possible!



The Champion of Fiber Transport

BarnOne takes your signal anywhere

World class signal redundancy

The ultimate stage-box solution

The world's most sophisticated CAM-CCU solution

The most flexible remote production unit on the market

www.barnfind.no



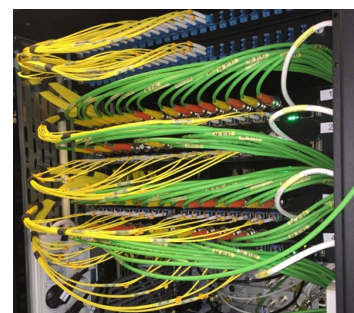
The world's most compact and flexible signal transport system

Today's product portfolio will grow rapidly with support for new signal formats.

Start working with Barnfind today.

Main features:

- A full 32 x 32 router in every BarnOne 1RU frame.
- Whatever signal that enters the system can be routed to any output, distributed, converted, monitored and analyzed.
- Extremely high granularity in 1RU - 32 completely separate full bandwidth inputs, 32 completely separate full bandwidth outputs.
- The BarnOne series can be used as a fixed box or repurposed on the fly to meet any change in demand.
- Every SFP port is bi-directional.
- Every BNC port is bi-directional.
- All ports are re-clocked.
- We accept any MSA compliant SFP. NO "lock-in" to proprietary expensive single manufacturer made units.
- Multiple reference switching; the router can be portioned to switch different signal types on different references, both analog and digital reference.





- Powerful and simple upgrade path; Industry unique double CWDM capacity - HiLo System using existing CWDM infrastructure.
- BarnStudio software included in the BarnOne price. A simple and quick to learn control system where you are able to monitor and follow signal integrity through multiple nodes.
- Most 3rd party control systems: Skyline/Dataminer, ScheduALL, LAWO/VSM, BFE/KSC, DNF Control, TSL, Ross openGear/DashBoard, RASCULAR, Black Magic, HiTech Systems, Axon Cerebrum, SAM SW-P-08 etc. are integrated. It is easy to make tailor-made custom panels and monitoring solutions.
- Highest density in the market; where other manufacturers use 3-5RU - Barnfind uses 1RU.
- Hot-swap optics ensures high reliability minimizing the need for maintenance windows and staff. Full redundancy.
- The BarnOne platform supports numerous signals in one frame such as common video and telco formats including KVM, SDTI (EVS), SMPTE 2022-6, MADI, SDI to IP, Ethernet, 4K 60p workflows, HDMI, DVI, Serial, GPI/O, CVBS, CAM-CCU (including video, audio, tally, intercom, RCP) etc.



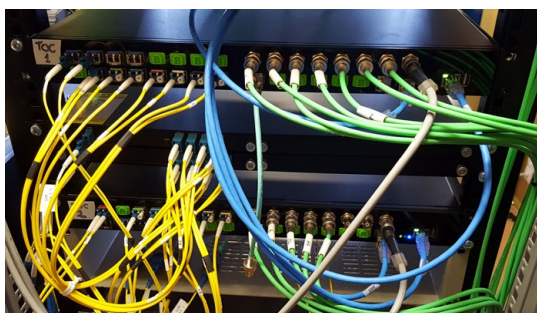
BarnOne 02



BarnOne 04



BarnOne 07



Some user feedback from customers around the world:

China: Chief Technical Engineer for the China Youth Games, Mr. Pan said: 'A durable, stable and high-quality signal transport, which provided a great efficiency and signal quality to our audience's national wide. We are impressed by the products flexibility, functionality and stability'.

Turkey: Mr. Aykut Imen at Digiturk said: "Barnfind is a reliable, responsive partner and proved their understanding and professionalism in this field. BarnOne allows us to use any kind of 3rd party SFPs as well as any 3rd party control solution."

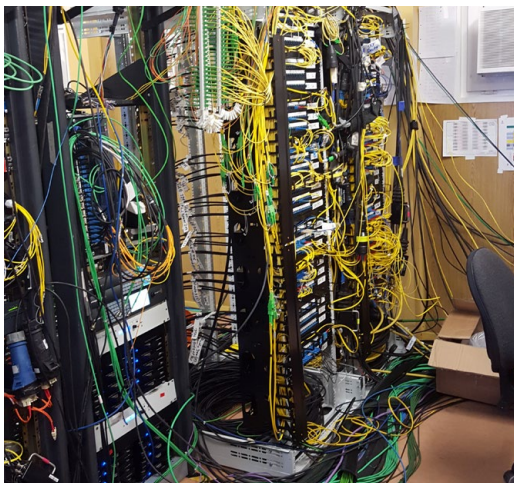
USA: "We needed a way to avoid the cost and complexity of one-to-one fiber drops, especially in very large productions with many channels of audio, video, and data signals for transport," said Mr. Kurt Heitmann, Senior Vice President, CP Communications. "With BarnOne, our clients are able to transport and switch up to 32 signals within a single frame and on a single fiber, greatly simplifying setup, operation, and troubleshooting for on-location productions."

UK: Mr. Paul Sykes, Senior Systems Engineer in Gearhouse said "Barnfind's BarnOne platform was chosen because of its 1RU form factor and flexibility to accept multiple signal types. With size and weight being key factors in this project, the BarnOne solution was a perfect fit. Other solutions we looked at were based on multiple small boxes for conversion. Barnfind's approach gives us a robust platform with redundancy in a single frame."

Germany: Mr. Jürgen Blitz, Wige's head of technical operations: "Barnfind has not only proven to have great and flexible products that allow us to use and change any SFPs and signal formats on the fly, but their technical and customer service - before, during and after installation - is outstanding." Wige is focused mostly on motor sport production and does Formula 1, DTM (Deutsche Touring Meisterschaft), the 24 Hours race at Nürburgring etc.











BarnOne

*The Greenest, The Smartest, The Most Affordable
and The Most Compact Solution in the world!*





BarnOne Frames

Order Name	Description	
BTF1-01	16 SFP ports	
BTF1-02	16 SFP ports and 16 BNC	
BTF1-03-08 BTF1-03-16	16 SFP ports and a 8 or 16 channel CWDMMux/ de-mux built in	
BTF1-04	32 SFP ports	
BTF1-05-08 BTF1-05-16	16 SFP ports and 2X 8 or 16 channel CWDMMux/de-mux built in	
BTF1-06	24 SFP ports, 8 BNC	
BTF1-07-08 BTF1-07-16	16 SFP ports, 8 BNC and a 8 or 16 channel CWDMMux/de-mux built in.	
BTF1-08-08 BTF1-08-16	24 SFP ports and a 8 or 16 channel CWDMMux/ de-mux built in	
BTF1-10AA	16 SFP ports, 8 BNC 2x D-SUB25 w/Analog Audio	
BTF1-10AESemb	16 SFP ports, 8 BNC 2x D-SUB25 w/AES Audio	

All base frames are 1RU-19". Price includes single PSU, control card and BarnStudio software for configuration and control.

BarnOne Accessories

Order Name	Description
BT-PSU-100-240AC	110~240V to 12V, 120 W Redundant PSU for BarnOne / BTF-Mini-16
BT-PSU-36-72DC	48DC to 12V, 100 W Redundant PSU for BarnOne / BTF-Mini-16
BTF1-TRAY-PSU	Tray for PSU to be mounted on the rear side of BarnOne
BT-EXT-PAIR-5CM	Extention mounting brackets for BarnOne, 5cm deep
BT-FAN-BARNONE	Fan Cassette for BarnOne





The "Norwegian army knife"

The BarnMini series has won much respect in many market segments around the world. With superior quality, re-clocking, your choice to use any MSA compatible SFPs, any signal format, any distance etc. we give flexibility that no other vendor can offer. We hear from our clients that they use it as their Norwegian army knife in many demanding applications.

Very often, the small green BarnMini boxes are used as an extension of the BarnOne solutions in order to reach out to cameras, monitors or any other 3rd party products. Even the SDTI signal from EVS can be handled by BarnMini. Sometimes BarnMini boxes are used with CWDM SFP's inside so that a client can gather more than one signal and use a mux in order to get more signals over one fiber.












The BarnMini frame, BTF-Mini-16, is a housing with space for up to 16 x BarnMini modules of any kind. The BarnMini frame, BTF-Mini-16, uses the same PSU as the BarnOne family. Note that BTF-Mini-16 comes with one single PSU and redundant PSU is optional.

The BarnMini series will be growing with many new family members in the years to come.





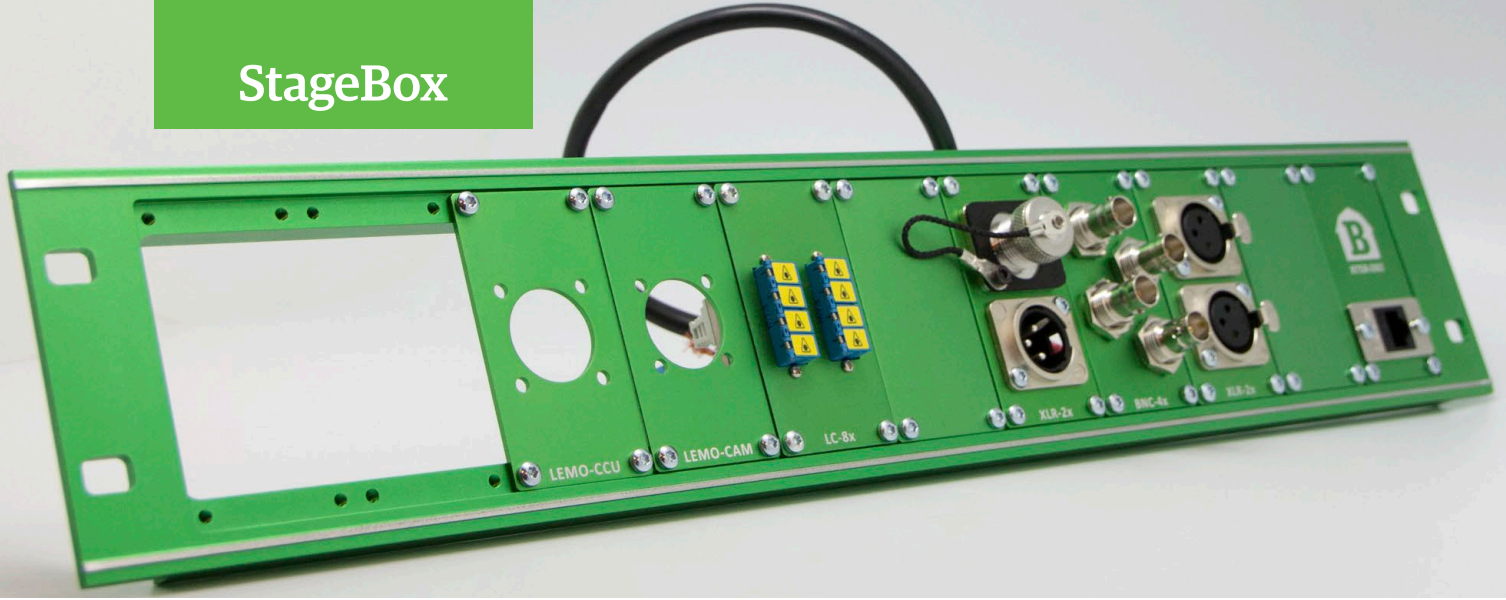
BarnMini Frames

Order Name	Description		Order Name	Description	
BarnMini-01	BNC TX/RX, SFP port for transceiver (TX/RX), incl. PSU		BarnMini-07	Optical multiplexer for 4 channel CWDM plus upgrade	
BarnMini-02	2xSFP port for transceiver (TX/RX), incl. PSU		BarnMini-08	Optical splitter, 1:2 or 1:4	
BarnMini-03	HDMI-SFP, HDMI RX, SFP port for transmitter (TX), incl. PSU		BarnMini-11	BNC TX/RX, SFP port for transceiver (TX/RX), incl. PSU	
BarnMini-04	SFP-HDMI, HDMI TX, SFP port for receiver (RX), incl. PSU		BarnMini-12	2xSFP port for transceiver (TX/RX), incl. PSU	
BarnMini-05	1xSFP port, 4xGPI, 1xRS422/485, controllable via BarnStudio		BTF-Mini-16	2.5RU frame for housing of up to 16 BarnMinis, incl. PSU	
BarnMini-06	Optical changeover 1:2. GPI controlled				

BarnMini Accessories

Order Name	Description
BT-Mini-PSU	Spare PSU for BarnMini series (stand-alone)
BT-PSU-100-240AC	110 240V to 12V, 120 W. Redundant PSU for BarnOne / BTF-Mini-16
BT-PSU-36-72DC	48DC to 12V, 100 W. Redundant PSU for BarnOne / BTF-Mini-16





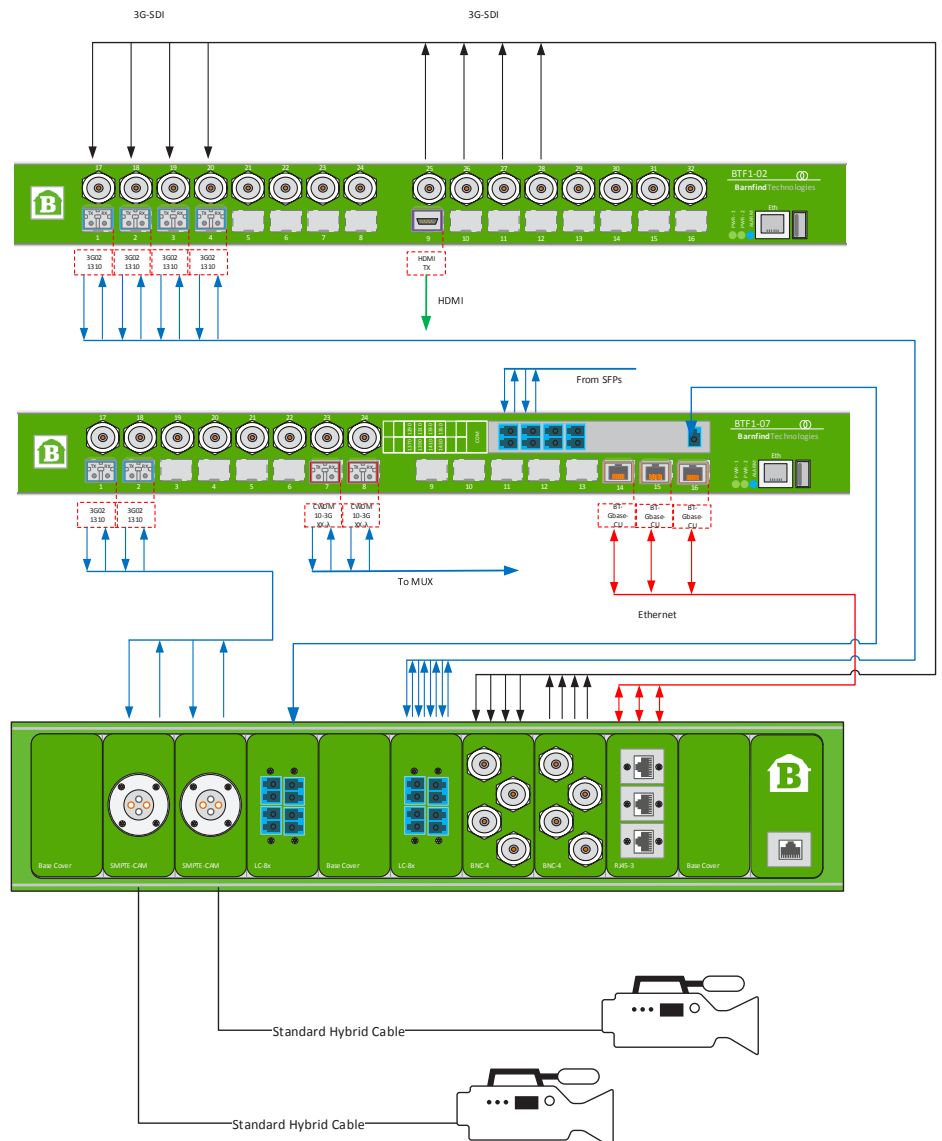
StageBox Breakout

Module-based Breakout panel

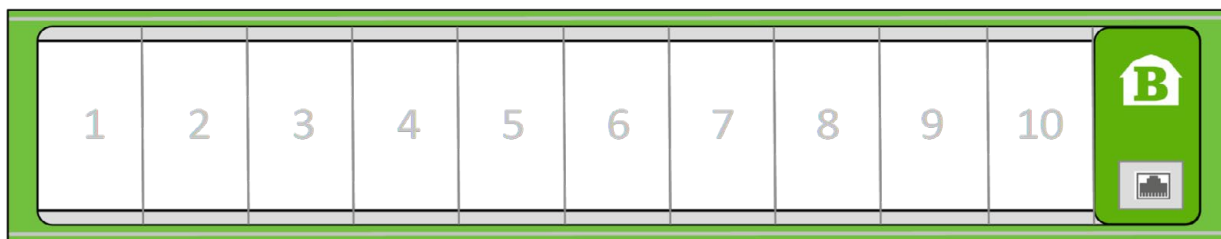
The Barnfind StageBox Breakout panel allows you to customize your own front panel based on the required modules. The selection of modules will be the connection points to one or more Barnfind products. All modules are made of solid aluminium, with high performance connectors.

Note!

- The BTSB-BASE blind cover can be customized to fit any other connector outside the Barnfind selection.
- The cables between Breakout panel and frames are not included.



StageBox module overview



BTSB-2RU

BTSB-BASE

Blind cover to fill up unused slots in BTSB-2RU. Note, can also be used to customize for a special preferred connector.



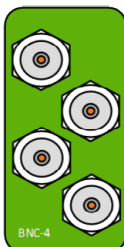
BTSB-RJ45-3x

Panel mounted RJ45 connectors.



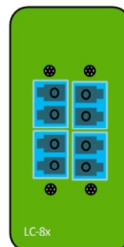
BTSB-BNC-4x

Panel mounted BNC connectors.



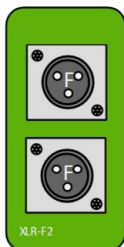
BTSB-LC-8x

Panel mounted LC connectors.
Metal enclosure.



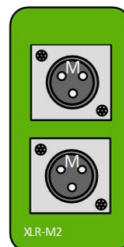
BTSB-XLR-F2x

Panel mounted XLR (female) connectors.



BTSB-XLR-M2x

Panel mounted XLR (male) connectors.



BTSB-LEMO-CAM

Panel mounted LEMO FXW.3K SMPTE connector. Used as standard on many hybrid fiber cameras.
(CAM connector not included)*

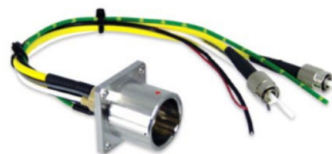


BTSB-LEMO-CCU

Panel mounted LEMO EDW.3K SMPTE connector. Used as standard on many hybrid fiber cameras.
(CCU connector not included)**



* LEMO 3K.93C SMPTE PANEL PLG, FXW with LC fibre



** LEMO 3K.93C SMPTE PANEL SKT, EDW with LC fibre





Barnfind
- as breathtaking as Norway



Photo: Stock.adobe.com / vadim petrakov

Optical Products

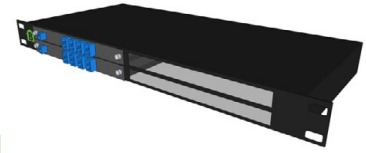
BT-HOUS-LGX-1RU is a 1-rack unit housing for passive optical products. It can accommodate up to 4 different LGX modules such as CWDM multiplexers, splitters and optical changeover switches. Each module is secured with thumbscrews for easy and quick exchange. This frame is often used when a client does not want to build CWDM muxes into the BarnOne frames, but house them in a separate housing.

Housing for Passive Optical Modules

Order Name	Description
BT-HOUS-LGX-1RU	Barnfind standard empty chassis for up to 4 LGX Boxes in 1RU

CWDM Mux/Demux Fit into BT-HOUS-LGX-1RU Chassis

Order Name	Description
BT-WDM-LGX	2 channels in LGX box stand-alone
BT-CWDM-MUX-08-LGX	8 channels in LGX box stand-alone
BT-CWDM-MUX-16-LGX	16 channels in LGX box stand-alone
BT-CWDM-MUX-18-LGX	18 channels in LGX box stand-alone



Optical Splitters Fit into BT-HOUS-LGX-1RU chassis

Order Name	Description
BT-SPLIT-2-LGX	Passive distribution of optical signals 1:2 out
BT-SPLIT-4-LGX	Passive distribution of optical signals 1:4 out
BT-SPLIT-8-LGX	Passive distribution of optical signals 1:8 out



Optical Changeover Switch Fit into BT-HOUS-LGX-1RU chassis

Order Name	Description
BT-OCS-2-LGX	Optical changeover 2:1, Non-latching



Accessories

Order Name	Description
BT-ATT-LC-05	Attenuator for LC connectors, 5dBm
BT-PA-LC/LC-SM-SX-0.5M	Fiber patch cables LC-LC, Single Mode, Simplex
FAULT LOCATOR 8-10km	Visual fault locator optical tester
BT-POWER METER	Portable optical power meter
BARNCLEAN	Fiber optical connector cleaner
BARNCLEAN REFILL	Refill cassette for BarnClean



Barnfind SFP's

The Barnfind philosophy is to offer a future-proof platform that saves customers space and money. Our BarnOne and BarnMini's accept any SFP (Small Form Factor Pluggable) because you never know what tomorrow brings! Barnfind follows the standard multi-source agreement (MSA).

Any of today's MSA SFPs will fit into the system, and we are prepared for those that do not exist yet. **Barnfind has the Barn for it!**

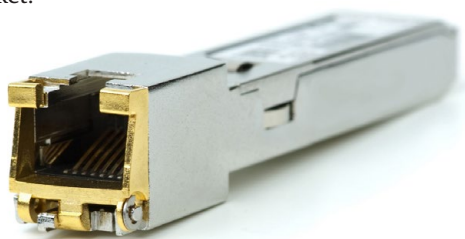
Barnfind has since 2010 put a considerable amount of resources into developing a strong portfolio of SFPs.

As an example sample we have developed a HiLo (High Low) SFP which doubles the capacity of signals on a standard 18 channel CWDM mux to a maximum of 18 x bi-directional (36 channels) that makes Barnfind very competitive. Barnfind is the only manufacturer offering 18 x CAM-CCU connections on one single fiber.

All known and unknown SFP manufacturers are welcome to house their SFP solutions in our "Barns". If you would like to build your own SFP we can house it and integrate it for the global market. Please tell us if you do not see the SFP's you are looking for in our overview of SFP's as we have only listed some of the possibilities.

Whether our own SFPs or 3rd party SFPs the BarnStudio displays information about port number, temperature, signal strengths, signal loss, manufacturer, serial number, wavelength and connector type. This information is listed in BarnStudio and/or your 3rd party management system.

Many competitors have proprietary pin layout and/or software restrictions/limitations on their SFP's which leads them to being at a higher cost. With Barnfind SFP's you will soon discover you have your spare parts in your pocket!



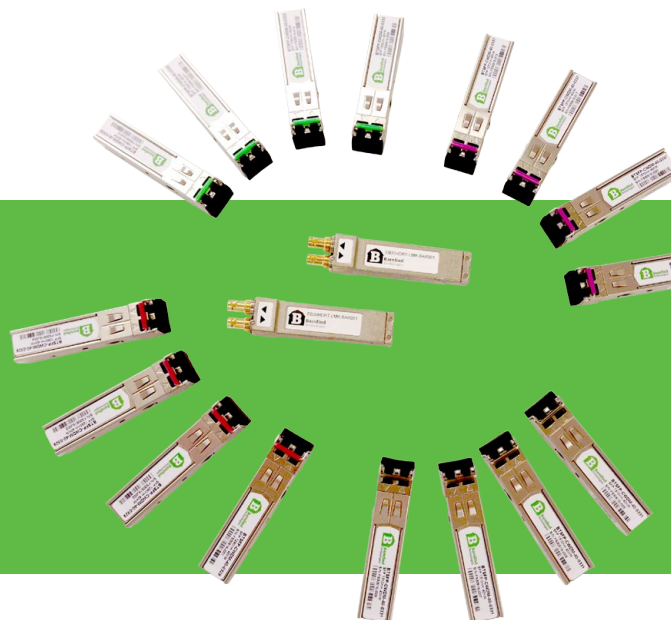
BarnOne's maintenance cost are extremely competitive. Imagine BarnOne as the Motor Highway and all the different SFP's as cars. Working with Barnfind you can drive old and new cars on our Motor Highway for unparalleled flexibility. No other competitor offers this flexibility. Although any SFP (MSA standard) will fit into our unique Barns, we can only offer warranty on our own SFP's.



All you need is in your pocket!



Please see Product Overview under DOWNLOADS at www.barnfind.no or ask your local partner for an overview of our standard SFP's.





Barn find (noun)
- A valuable item recovered
from an old storage facility,
like an old barn.

BarnStudio – a management and configuration tool

BarnStudio is first of all a management and configuration tool to be used for Barnfind products. Further, it is a great tool for general monitoring of signal flow and diagnostics of SFPs, BNCs, many different optical parameters, fans, reclockers, equalizers, GPIO's and more.

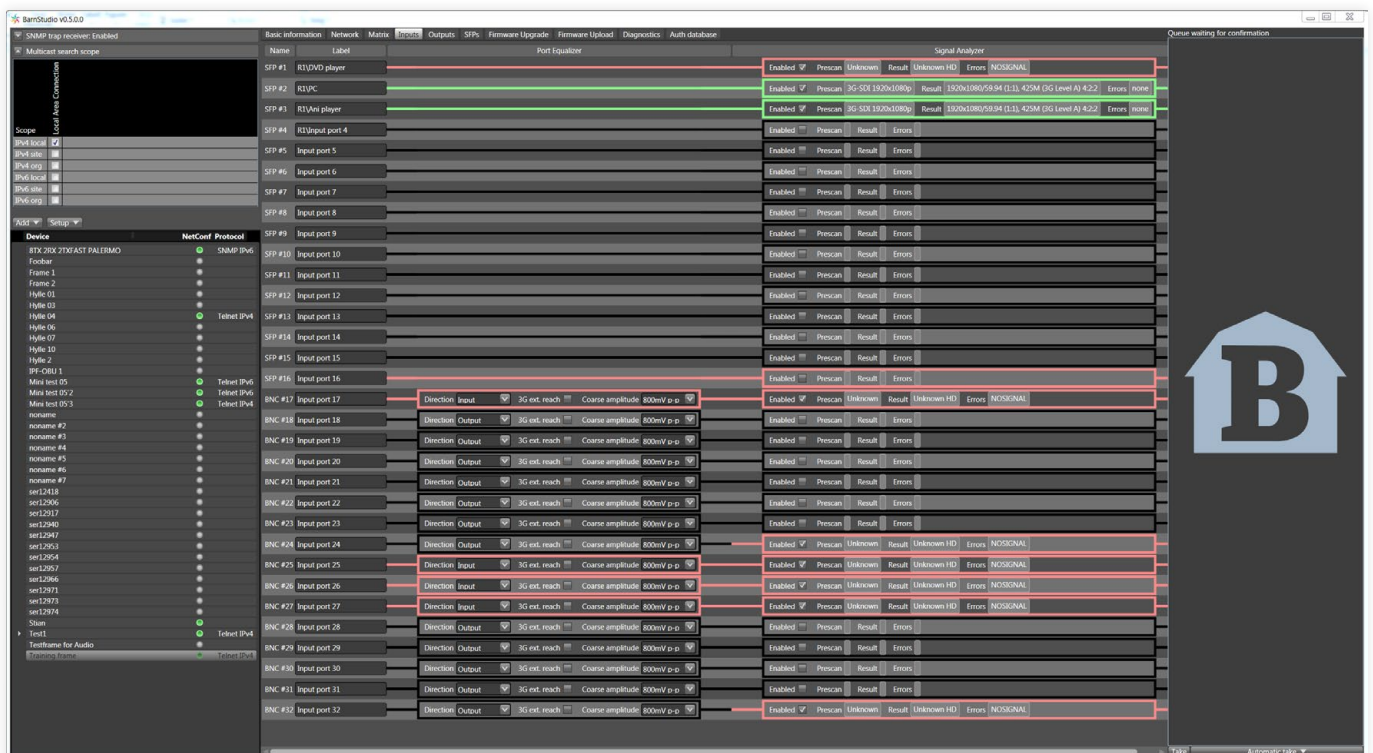
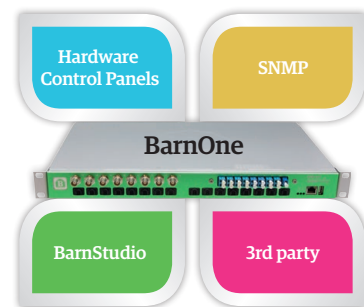
Take a close look at our no cost BarnStudio control software that gains more and more popularity throughout the production environment. BarnStudio software is a comprehensive tool for configuration as well as for daily operation.

You can install BarnStudio on your computer today.

Download it directly from our website and test it out:

<http://www.barnfind.no/control/>

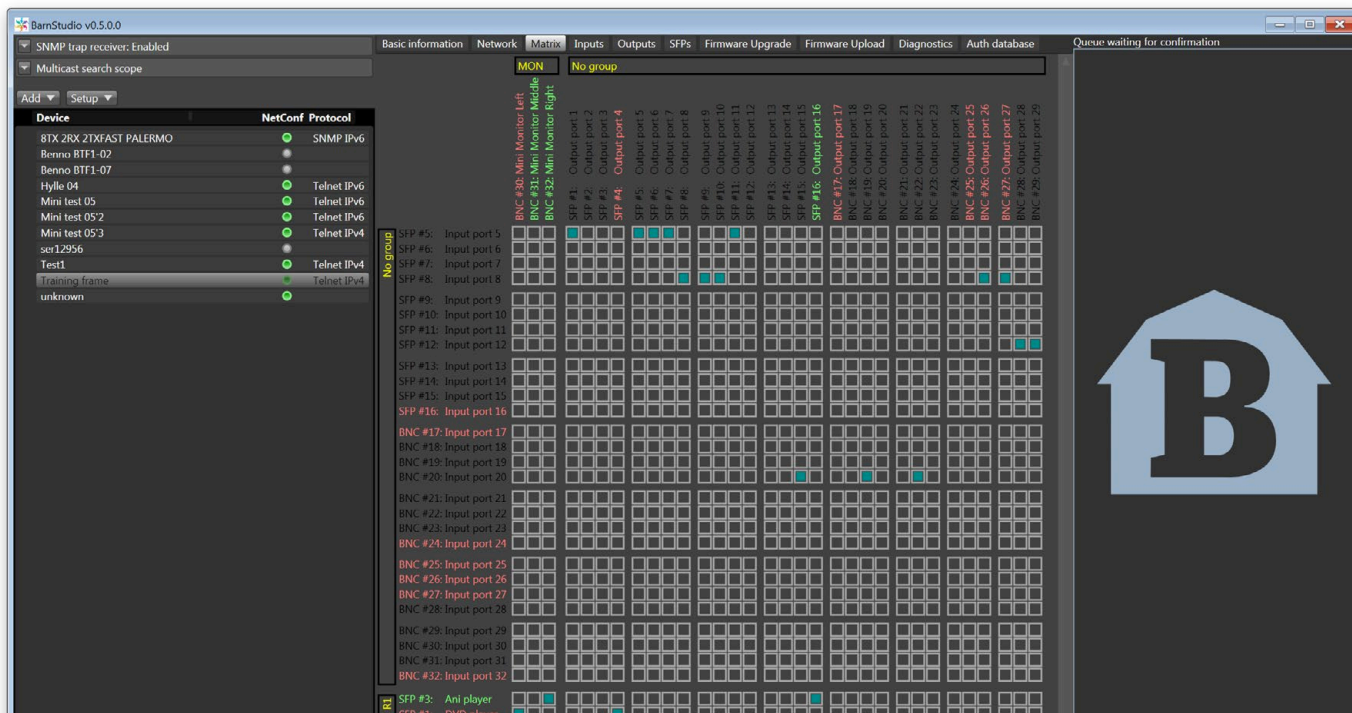
Barnfind also offers a WEB-GUI version of BarnStudio.



Basic information Network Matrix Inputs Outputs SFPs Firmware Upgrade Diagnostics SNMP traps					
Current trap target table		Last received traps			
Index	Host	Port	Status	Config	SFPDiag Network
1	192.168.0.90	161	✓	✓	✓
2	192.168.0.140	161	✓	✓	✓



Barnfind offers training sessions on a regular basis for both hardware and software solutions.



BarnStudio v0.5.0.0

SNMP trap receiver: Enabled

Multicast search scope

Local Area Connection

Scope

IPv4 local

IPv4 site

IPv4 org

IPv6 local

IPv6 site

IPv6 org

Hold Setup

Device

NetConf Protocol

8TX 2RX 2TXFAST PALERMO

Benno BT11-02

Benno BT11-07

Hylle 04

Mini test 05

Mini test 05/2

Mini test 05/3

ser12956

Test1

Training frame

unknown

SNMP IPv6

Telnet IPv6

Telnet IPv6

Telnet IPv6

Telnet IPv4

Telnet IPv4

Basic information Network Matrix Inputs Outputs SFPs Firmware Upgrade Firmware Upload Diagnostics Auth database

MON No group

SFP #1: Mini Monitor Left

SFP #2: Mini Monitor Middle

SFP #3: Mini Monitor Right

SFP #4: Mini Monitor Right

SFP #5: Input port 5

SFP #6: Input port 6

SFP #7: Input port 7

SFP #8: Input port 8

SFP #9: Input port 9

SFP #10: Input port 10

SFP #11: Input port 11

SFP #12: Input port 12

SFP #13: Input port 13

SFP #14: Input port 14

SFP #15: Input port 15

SFP #16: Input port 16

BNC #17: Input port 17

BNC #18: Input port 18

BNC #19: Input port 19

BNC #20: Input port 20

BNC #21: Input port 21

BNC #22: Input port 22

BNC #23: Input port 23

BNC #24: Input port 24

BNC #25: Input port 25

BNC #26: Input port 26

BNC #27: Input port 27

BNC #28: Input port 28

BNC #29: Input port 29

BNC #30: Input port 30

BNC #31: Input port 31

BNC #32: Input port 32

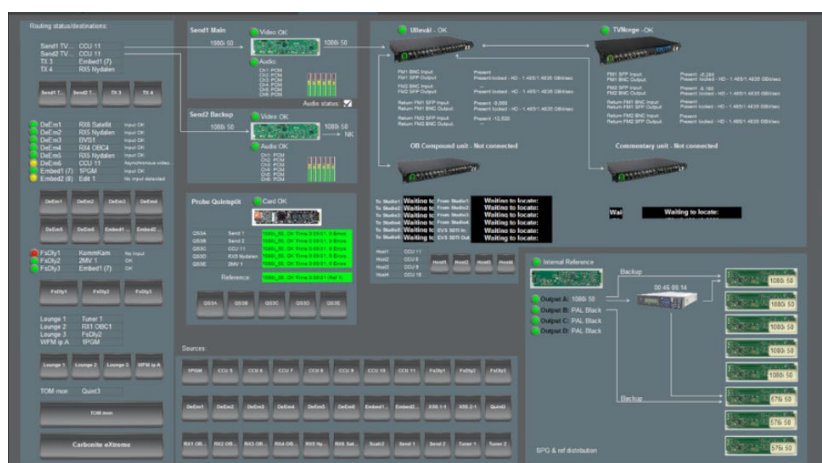
SFP #3: Ani player

SFP #1: DVD player

PortName	Vendor	PartNumber	SerialNumber	Production Date	Wavelength	Bitrate	SM	OM1	OM2	OM3	Copper	Connector
SFP #1	Barnfind Tech	BT3P-LX-SM-3602	607281240120	2016-8-8	1310	3 GHz	2000 m	0 m	0 m	0 m	0 m	LC
SFP #2	EMIRONONX	EB34D1D1R-SM	114060300022	2015-5-7 CG	0	3 GHz	0 m	0 m	0 m	0 m	0 m	HDMI Type D
SFP #3	EMIRONONX	EB34D1D1R-SM	114060300017	2014-6-11 CG	0	3 GHz	0 m	0 m	0 m	0 m	0 m	HDMI Type D
SFP #4					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #5	Barnfind Tech	BT-CWDM-10-3G35	612112140115	2017-2-10	1370	3 GHz	10000 m	0 m	0 m	0 m	0 m	LC
SFP #6	Barnfind Tech	BT-CWDM-10-3G35	702241240005	2017-3-15	1390	3 GHz	10000 m	0 m	0 m	0 m	0 m	LC
SFP #7	Barnfind Tech	BT-CWDM-10-3G41	612112140172	2017-2-10	1410	3 GHz	10000 m	0 m	0 m	0 m	0 m	LC
SFP #8	Barnfind Tech	BT-CWDM-10-3G41	612221240101	2017-2-7	1430	3 GHz	10000 m	0 m	0 m	0 m	0 m	LC
SFP #9					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #10					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #11					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #12					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #13					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #14					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #15					0	N/A	0 m	0 m	0 m	0 m	0 m	
SFP #16	EMIRONONX	EB34D1D1-SM	115012000029	2015-2-2 CE	0	3 GHz	0 m	0 m	0 m	0 m	3 m	HDMI Type D

Name Value

Barnfind and 3rd party control



Over the years Barnfind has been integrated into many known broadcast/AV and telecom control systems around the world. Whatever your setup is - Barnfind has the control solution for you. Barnfind has strong relationships to many 3rd party control systems on the market.

For example Ross OpenGear/DashBoard, LAWO VSM, BFE KSC, TSL Tallymann, HiTech Systems, BlackMagic Design, DNF Control, Dataminer/Skyline, RASCULAR, AXON and the industry-standard SW-P-08 routing control protocol, supported by most control panels and router manufacturers. The Barnfind platform fits perfectly into your existing application and is extremely easy to implement.





**Fiber Transport
Multiplexing
Routing
Conversion
Distribution
IP/Ethernet
4K 60p Workflows
18 x CAM-CCU**



Barnfind handles many signal formats such as common video and telco formats including KVM, SDTI (EVS), SMPTE 2022-6, MADI, SDI to IP, Ethernet, 4K 60p workflows, HDMI, DVI, Serial, GPI/O, CVBS, CAM-CCU (including video, audio, tally, intercom, RCP) etc.

For all technical information - see our BarnGuide

