



LIVE ON AIR  
IN HD WITH  
DEDICATED  
10 MBIT/S

POINT-TO-POINT OR LIVE TO WEB.  
VIA LAN, WIFI, 3G OR SATELLITE.  
CAMERA-TOP OR MIXED SIGNALS.

# AFFORDABLE SATELLITE UPLINK? YOU GOT IT!

# news spotter powered by KA-SAT

Together with our partners at Eutelsat we provide different satellite uplink solutions using NewsSpotter KA-Band and high performance modems. Our systems enable you to go LIVE in full HD using a dedicated bandwidth now up to 20 Mbit/s\* for up- and download, starting from 50 EuroCent a minute!

You can choose between:

- Fixed wall mount units
- Fly-away units
- Car units

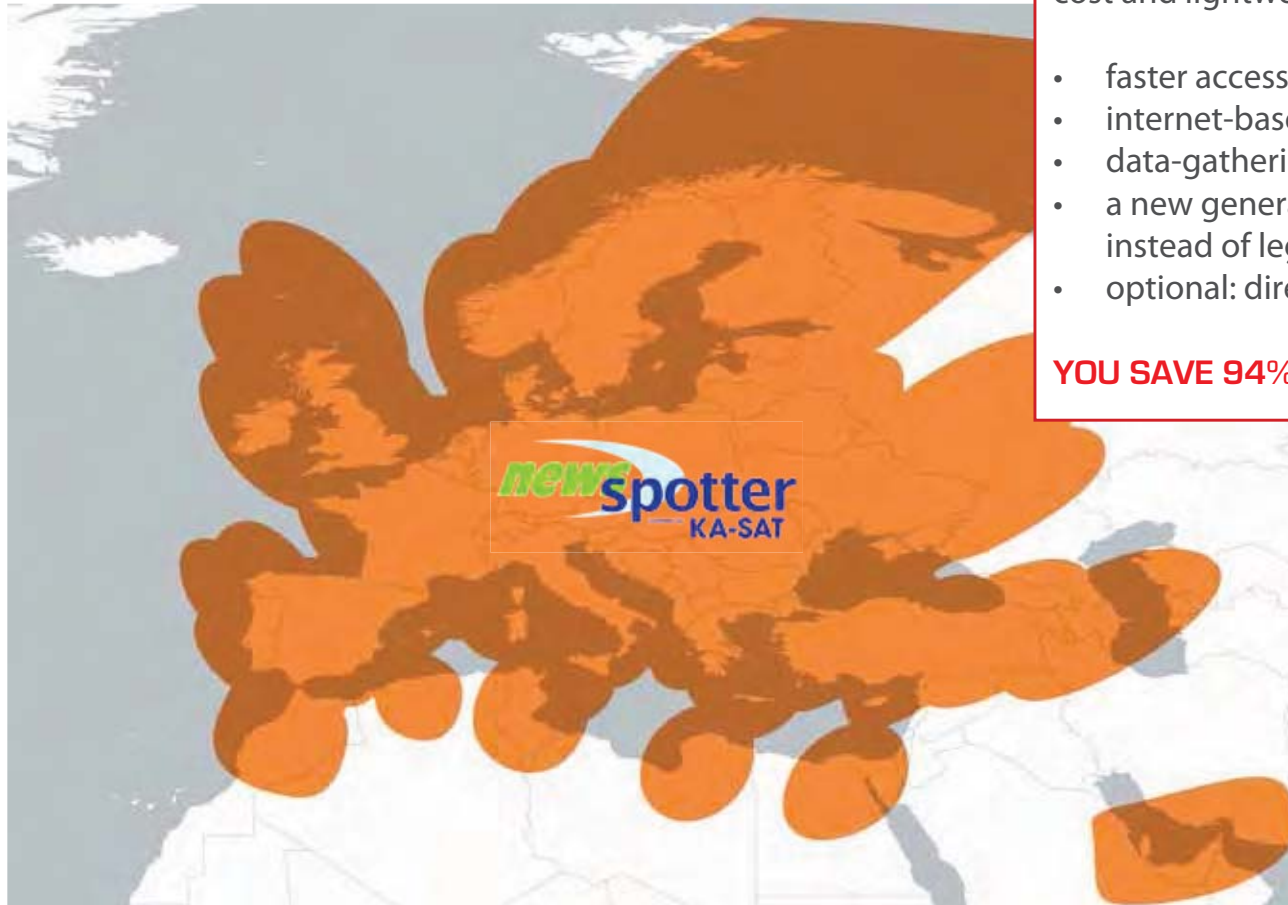
**GO LIVE ALMOST EVERYWHERE, ANYTIME!**

#### These are the outstanding benefits:

- Dedicated bandwidth - constant upload up to 20 Mbit/s \*
- High-quality@low-cost broadcasting with up to 94% cost reduction
- Fast deployment via auto- / semi-autopointing
- Mountable on the roofbar of a car
- comes with Antenna controller & motor, modem, WIFI-router, triaxial feedarm and dish
- Book airtime online - save on project management costs

\* starting 2014 -before: 10 mbit/s

# GEOGRAPHIC KA-BAND COVERAGE



## DID YOU KNOW?

NewsSpotter KA-SAT Services offer you a Europe-wide low-cost video contribution service for SNG using low cost and lightweight gear. This means:

- faster access to injection points,
- internet-based booking,
- data-gathering applications and
- a new generation of transportable terminals <10K instead of legacy SNG around 150K
- optional: direct link from fiberring to your premises

**YOU SAVE 94% of your investment-costs!**



The Eutelsat KA-Satellite is positioned at 9 degrees East and covers Central Europe and parts of North Africa and Middle East. It was launched in 2010 and has a capacity of 90 Gigabit/s with 82 beams. Signals are downlinked in seven different earth stations. The earth stations are linked together via a fiber ring. From the fiber ring the data is sent to the cloud. Or you use the direct link service, where your data is forwarded to your premises via fiber directly.

# FLY-AWAY AND FIXED UNIT



The miniCASTER® fly-away satellite uplink unit fits in any trunk and is built up in only seven minutes. Your benefit: independence from the infrastructure around you!

Your smartphone (that comes with the dish) does the auto pointing job for you and makes positioning quite comfortable.

Plus: finally you can count on a dedicated upload bandwidth of up to 10 Mbit/s (Downlink-Speed: 10 Mbit/s) - to LIVE in full HD.

You can also upload footage material via FTP or connect your crew's smartphones via WIFI on set. Or just use the unit as mobile WIFI Hotspot.

For the required ON AIR time, you just have to book your airtime package with us. You only pay what you need to broadcast LIVE!

And it's so simple: The antenna controller automatically directs the antenna to the satellite by the push of 2 buttons only.



Smartphone



Advanced modem 10Mbit/s



# SATELLITE UPLINK NEWSPOTTER CAR UNIT

Now affordable - Your D-SNG using KA-Band by Eutelsat, guarantees you dedicated up to 10Mbit/s upstream bandwidth and can also be used as local High-Speed WiFi network when connected.

Besides, you can ride fast with our miniCASTER® satellite uplink car unit: it is rock solid and can be folded away. This allows you to drive with up to 160 km/h.

Plus: you enjoy a very fast deployment for finding the satellite and getting online. The unit uses a 2x mini joystick-remote allowing you to do manual motorized pointing. By turning down the motorspeed knob, the whole process incl. fine-pointing can be done in approx. 2 minutes. Another 2 minutes for network entry and you are on AIR.



# SATELLITE UPLINK UNITS - PRODUCT OVERVIEW



## BASIC UNIT

### Manual pointing

miniCASTER® satellite uplink basic unit is for installations on walls or roofs in rural areas, where broadband connectivity is hard to get:

The installation takes about 30 minutes. Once this is done, you are able to stream up and down with up to 10 Mbit/s.

FTP or typical Internet browsing is possible, too. You can also send from a Fly-away or car unit to a fixed unit. The data takes the shortest way and delay will be at minimum.

### What's inside:

- 6 Mbit or 10 Mbit modem
- Feedarm and tria
- Dish
- Wall-mount

## FLY-AWAY UNIT

### Auto pointing

miniCASTER® satellite uplink fly-away unit is your mobile gateway to the broadband world:

It comes with a auto-pointing app and takes 7 minutes to get on AIR.

Once you are connected, you have fully featur red high speed broadband internet connection of the basic unit to start your production.

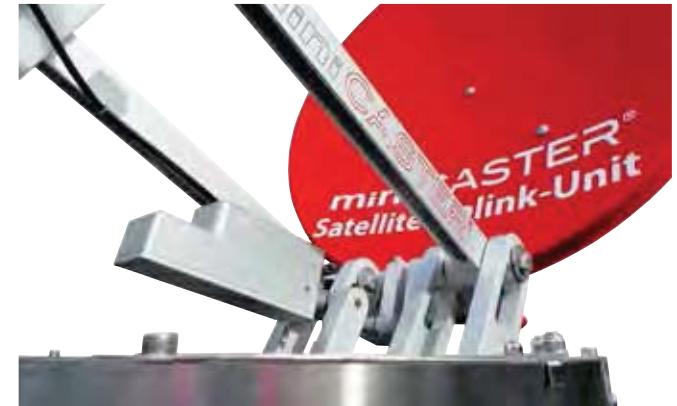
### What's inside:

Basic unit +

- Flightcase
- Tripod
- Motor
- Smartphone
- Cable-extender

### Tip:

with the fly-away and a cable extender, you can work around buildings that block satellite connection!



## NEWSSPOTTER CAR-UNIT

### Motorized pointing

miniCASTER® satellite uplink car-unit is the best solution for professional results.

It is installed on a car, a van or a SUV and folds away the antenna safely, when not in use.

You connect to the satellite by motorized pointing via joystick very fast and easy - 4 min. only!

### What's inside:

Basic unit +

- Motor
- Frame
- Windshield
- Joystick remote control
- Cables

# MINICASTER® AIRTIME AND STREAMING PACKAGES



Datatransfer over the internet via satellite - based NewsSpotter service. Feed your company/TV station or to TV1's CDN. Online booking. Pay what you stream. 20 GB = 33 hrs SD Quality at 1,5 Mbit/s (€ 0,65/minute) 12,5 hrs HD Quality at 4 Mbit/s (€ 1,70/minute)



Datatransfer over the internet via satellite - based NewsSpotter service. Feed your company/TV station or to TV1's CDN. Online booking. Pay what you stream. 50 GB = 66 hrs SD Quality at 1,5 Mbit/s (€ 0,65/minute)

## REACH

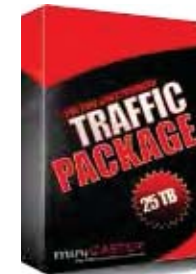


Reach mobile devices working on DS and Android with this all-in-one CloudTranscoding & Streaming package for PCs, tablet PCs and smartphones, but also flash enabled devices.

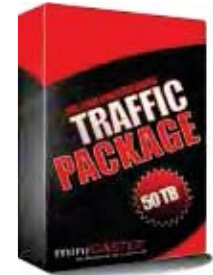
## STREAMING



10 TB = 2,5 million viewing minutes at 550 kbit/s bandwidth, but you can choose any bandwidth you want. You can use your own online video player or book our Live Flash Video Player.



25 TB = 6,25 million viewing minutes at 550 kbit/s bandwidth, but you can choose any bandwidth you want. You can use your own online video player or book our Live Flash Video Player.



50 TB = 13 million viewing minutes at 550 kbit/s bandwidth, but you can choose any bandwidth you want. You can use your own online video player or book our Live Flash Video Player.



FUTURE-SAFE INVESTMENT:  
MINICASTER®  
SDI - RECEIVER/DECODER

COST-EFFECTIVE AND SCALABLE  
WAY OF SIGNAL CONTRIBUTION IN  
SD OR HD QUALITY (UP TO 1080P30)



# MINICASTER® LOW LATENCY SDI RECEIVER/DECODER



The miniCASTER® receiver/decoder is the most powerful all-in-one broadcast-webcast-recording solution out there: all hardware and software expansions are built in already: you're just a phone-call or email away to get all the other features such as 2x SDI-out, relay, transcoding, failover, live transcoding and access control „activated“ via the internet.

## STANDARD FUNCTIONS:

- Easy to configure via display and keypad
- Control via front panel and web-interface over network
- Backup settings and software upgrade via internet
- Receives up to 6x video streams from different units and different locations
- Automatically scales input streams in different formats into selected output format (SD or HD)
- Test picture can be customised
- Interface can be used for control, support or similar
- Double LAN, double network interfaces, one network.
- Optional redundant power supply
- Black burst sync in



# UPGRADE FEATURES TO MATCH YOUR NEEDS!

Start out with the basic 1x SDI-out and expand whenever you want.

## 2ND SDI-OUT

The 2nd SDI-OUT activation is just a phone-call or email away and will be done remotely. When used with the relay-functionality, the 2nd SDI-out can be used for multiviewing of up to 6x incoming IP-streams.

## RELAY FUNCTION

RELAY is a very powerful strategic TS-stream distribution feature allowing to manage up to 6x IP-streams at the same time: TS-streams from several encoders as well as from a playout server/backup-server. Any incoming stream can be forwarded to any LAN or WAN destination as unicast or multicast using TS-UDP/TCP/TCP-on-request. Applications: studio-links, satellite-uplink-contribution, CDN-proxy-recording-contribution links, inhouse previewing etc.

## FAILOVER SWITCHING

FAILOVER is used as an extension to the relay-functionality allowing you to do a failover-switching from 2x TS-stream, for example from a playout-server #1 to playout-server #2 in a LAN to save bandwidth for long distance IP-links. If bandwidth is available the failover can be used for long distance links for 2 streams in parallel from relay #1 to relay #2.

## TRANSCODING OPTION

With the miniCASTER® receiver TRANSCODER, the broadcast and the webcast world are no longer separate. Any broadcast feed such as 720p50 or 1080-stream can be transcoded to an rtmp-stream (e.g. 768x432, 25fps at 1Mbit/s) to meet any CDN requirement (content delivery network) for webcasting.

## ACCESS CONTROL

ACCESS CONTROL is used to authorize only a certain sender-IP-address to send a unicast/multicast TS-UDP/TCP-stream to the receiver/relay. Especially useful when giving the miniCASTER® out of hand.

# TECHNICAL SPECIFICATIONS

Digital out SDI embedded	SMPTE 259M, SMPTE 272M
Digital out HD-SDI	SMPTE292M SMPTE 299M
Digital video in MPEG2	MPEG2 video (ISO-IEC 13818-2 MP@ML, MP @HL, HP@ML HP@HL (4:2:0 ) 422@ML, 422@HL (4:2:2)
Digital audio in	MPEG1 audio layer 2 (IS O/IEC 11172-3) AAC (ISO/IEC 14496-3:2005 MAIN
Transport in	MPEG2-TS over IP (IS O/IEC13818-1 UDP and TCP
Dimensions (without removable rack brackets) 19" 425 x 380 x 45 (w x d x h)	Fits in 19" rack (1 height unit)
Weight	appr. 7 kg



# ALL YOU NEED TO BROADCAST LIVE

## THE MINICASTER® BROADCAST STARTER PACKAGE



### SDI Live Encoder/Recorder

- > multi-unit remote management
- > user rights management
- > de-interlacer



1

### NewsSpotter Satellite Uplink Car Unit

- > Small Size, ready in 4 minutes
- > Guaranteed bandwidth up to 6/10Mbit
- > Full duplex IP-connection for file-transfer etc.

3

2

### Receiver/Relay-Receiver/Decoder

- > 1 or 2 SDI-out
- > Relay/failover/transcoder
- > Software key activation of all features



news  
spotter  
— KA-SAT





## THE MINICASTER® BROADCAST STARTER PACKAGE - SPECS



The miniCASTER® Encoder is a mobile hardware based H.264 live encoder that converts any camera or video source signal into an IP based livestream and delivers it via landline, WiFi, satellite or cellular networks to the leading Content Delivery Networks and video platforms. miniCASTER® generates one HD and one SD Stream in parallel, is able to record at the same time and can be operated in real-time via a web-based remote management portal. At a glance:

- Live-Streaming from all types of SDI-Cameras - also wireless via Wi-Fi or UMTS (3G)
- SD-/HD resolution up to 1080-30p - recording at the same time on SD-card
- Point-to-point signal transmission via Internet - Push to a PC with DVI out
- Signal transfer possible from almost everywhere eg. with a smartphone as Wi-Fi hotspot



A dedicated bandwidth is now finally affordable - Your D-SNG using KA-Band by Eutelsat, guarantees you dedicated up to 10Mbit/s upstream bandwidth for under 0,50 €/minute and covers Europe, North Africa, and parts of Middle East. No technical skills are required to establish a connection and you only need 80 sec for finding the satellite and 4 min. for getting online:

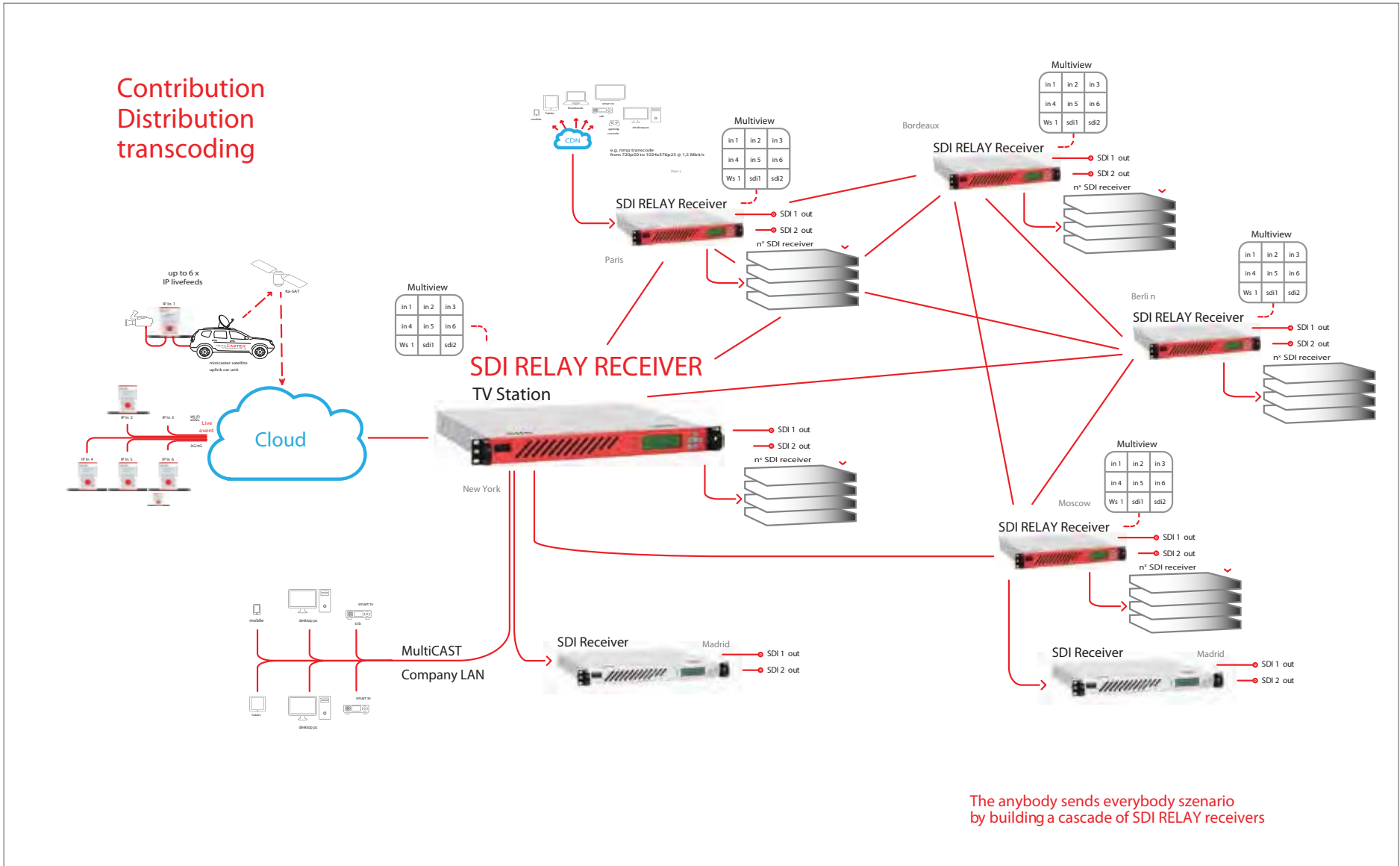
- Small size, super-fast deployment/Motorized pointing system (joystick control) with dish rotation of more than 360°
- Quick alignment to the Ka-SAT satellite (eutelsat), located at 9° EAST through simple graphical user Gigabit interface
- Data transfer: Modem BASE 10 Mbps download/6 Mbps upload or optional: Modem Pro 20 Mbps download/10 Mbps upload
- Low power consumption with only vehicle battery for immediate use



The miniCASTER® SDI Receiver is the perfect solution for a very cost-effective way of signal contribution in SD or HD quality. It can be managed easily over an web-interface and can be upgraded easily with important functionalities via software applications, like dual channel, relay, failover and transcoding. It can be installed in a 19" rack with all connectors on the rear side.

- Relay to unlimited receivers (optional)
- Easy to configure via display and keypad
- Can receive video streams from a number of different units from different locations (Black burst sync in)
- Automatically detects incoming stream types (MPEG/ H.264) and scales them into selected output format (SD/HD)

# THE ANYBODY SENDS EVERYBODY SCENARIO



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