



PRESS RELEASE
FROM

2013 International CES[®] Las Vegas

New Products from  **CELESTRON[®]**



Celestron, the leading manufacturer of telescopes, microscopes and Sports Optics has unveiled 50 new products during the „International CES 2013“ in Las Vegas.

Several new binocular series in all price ranges and

new LCD microscopes did catch the attention of the visitors. But the main attraction was a new mount for astrophotography – and most of all a new accessory that makes it easier than ever before to discover the wonders of the Universe by yourself.

1. AVX Mount

The ideal mobile mount for Astrophotographers!

The new Celestron AVX mount is significantly more stable and precise than other mounts in the same class, thanks to a completely new developed drive system. The AVX is able to carry an Edge HD 925 for astrophotography and an 11" Edge HD or Schmidt Cassegrain Telescope for f2 prime focus imaging (Hyperstar) or for visual observations. The periodic error of the drive system is around 10-12 arcseconds and can be further reduced by the PEC (periodic error control) system which is integrated into the mounts software. The new ergonomic and much more massive design makes it easy to slew the mount through the meridian without hitting the motor housings. With the addition of the „SkyQ „ Wifi Module and the „StarSense“ module the AVX is the most exact, most modern and easiest to use mount in it's size.



*The new
Advanced VX
Mount*



*Advanced VX
Mount with
Celestron C11
and NightScape
CCD-Kamera with
Hyperstar Optics*

2. StarSense accessory module

The most exiting new product since many years – this technology is truly revolutionary for amateur astronomy

„StarSense“ contains a dedicated hand control unit (HC) and a CCD-camera module, both may be added to almost every Celestron GOTO telescope sold in the last 10 years. It enables alt-az GOTO telescopes to do an fully automatic alignment without any user input. No entering of coordinates, time, site, alignment stars, no leveling is necessary. Just turn on the telescope, hit the „StarSense button an the alignment starts fully automatically. The camera (which is mounted on the finder scope holder) very fast will take 3 photos of different regions of the sky and analyze the star patterns. Then the telescope „knows“ the sky above and can be directed to any stellar or deep sky object with the push of a button. The automatic alignment procedure only takes 3 minutes! Competing sys-



**StarSense™
TECHNOLOGY**

tems need 4x as long and contain much more sensitive, complicated technical parts. StarSense is easily ancamera and a clever software wich is bringing professional „plate solving“ technology into the hands of the astronomy amateur. For any complete novice - and or for any astronomical „oldhand“ - anyone that does not want to loose time with perfectly aligning the telescope, this is the solution for quick and real-time presentations of the night sky to a wider audience, without frustration about lack of target stars or small available sky area asf.

Equatorial mounts with Star Sense

„Star Sense“ can also be attached onto equatorial mounts. At first the user has to do a short polar alignment with the revolutionary Celestron „All Star Alignment“. It is only necessary to drive to one single star and center it with the ALT and AZ axis. It does not matter wich star

it is, Polaris must not be visible. After performing this rudimentary „All Star Alignment“, the „StarSense“ electronic takes over and takes 3 photos of the sky to find orientation. No input of the user is necessary, no coordinates, no



The Celestron StarSense module

time, no alignment stars. 3 minutes later you can use the telescope!

T-Point functionality

Another advantage is the possibility to extremely increase the positioning accuracy by a „T-Point“ like mapping function. You can „map“ as many stars as you want - means, you point the telescope to a star, center it exactly and save the position with pressing ENTER. That's it - and after mapping 10 stars this way, the pointing accuracy is equal to that of a highly professional mount!

More features

But that's not all of the advantage. The StarSense camera has two ports - one to connect to the scope, the other one is an USB port that can

be connected to the computer for software updates - and to use the photos of the camera for other purposes, like auto-guiding or for wide angle astrophotography. Celestron is currently working on several software adaptations to further increase the functionality of the amazing StarSense module.



3. Off Axis Guider.

A new, very thin off axis guider with ring clamp on both sides. Large prism for easy guiding star selection. Fits on all kinds of telescopes thanks to different adaptors (T-2 and M48) that are delivered together with the OffAxis guider. Also in the kit included are different spacers for bringing the guider in the ideal position from the back end of the Edge HD telescopes. The off-axis-guider includes a helical eyepiece focuser with enough travel to reach focus in any case.



4. Luminous 2.5x Barlow

Finally, an optically very advanced, apochromatic 2" barlow lens with 2,5x focal length extension factor. Four multicoated lenses guarantee a crisp and clear image over the whole field of view.



Luminous
APO-Barlow
2.5x

5. EHD Reducer .7x for 8" EdgeHD

Four lenses with special glas (Lanthanium) and Celestron proprietary XLT-coating. The Edge HD 8" turns into an f/7 (1400mm) Astrograph - with perfectly flattened and coma free field of the size of an APS CCD sensor. Ideal for cameras like Celestron Nightscape, Canon 600 D, Canon 60 Da.



BAADER PLANETARIUM G
M
B
H
Zur Sternwarte • D-82291 Mammendorf • Tel. +49 (0) 8145 / 8089-0 • Fax +49 (0) 8145 / 8089-105
Baader-Planetarium.de • kontakt@baader-planetarium.de • Celestron-Deutschland.de