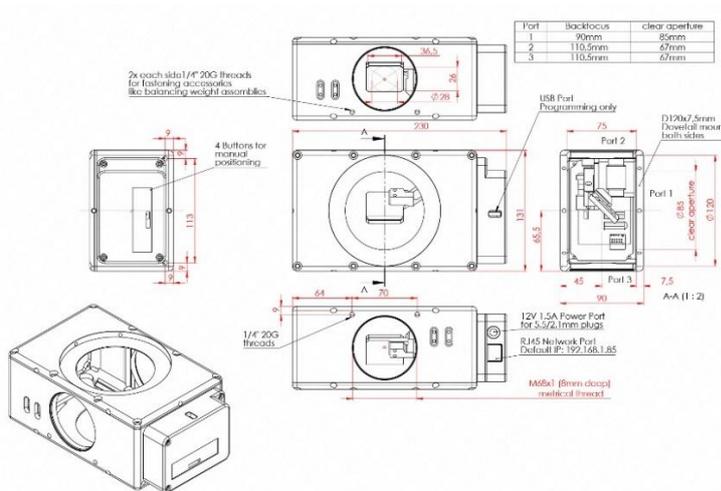# Instrument Multi Port IMP85

The IMP85 (Instrument Multi Port with 85mm free diameter) is a direct result of our production of remote-controlled observatories .

The possibility of obtaining multiple benefits from a telescope opens up completely new worlds for remote observatories as well as for amateur astronomers or regular observatories.

A remote observatory never has to be rebuilt again: A device can now be equipped with a deep-sky astro camera, a planetary camera and a spectrograph without having to apply to the staff for conversion time.

An **observatory that is** open **to the public** can finally leave the camera on the main unit permanently and still use it for observations with guests without any problems. After the tours, there is no time to clean up and rearrange the equipment - the telescope can be used for astrophotography at the touch of a button. The possibilities of this system are as diverse as the fields of work in astronomy.

Port	Backfocus	clear aperture
1	90mm	85mm
2	110.5mm	67mm
3	110.5mm	67mm

The IMP85 has **a unique** selling point with its **unmirrored port 1** . Where other devices have a central mirror that rotates, the design of the IMP85 keeps the main camera in the central focus. No light is lost and the weight is evenly distributed. The compact and massive construction enables the shortest possible connection to many telescope systems.
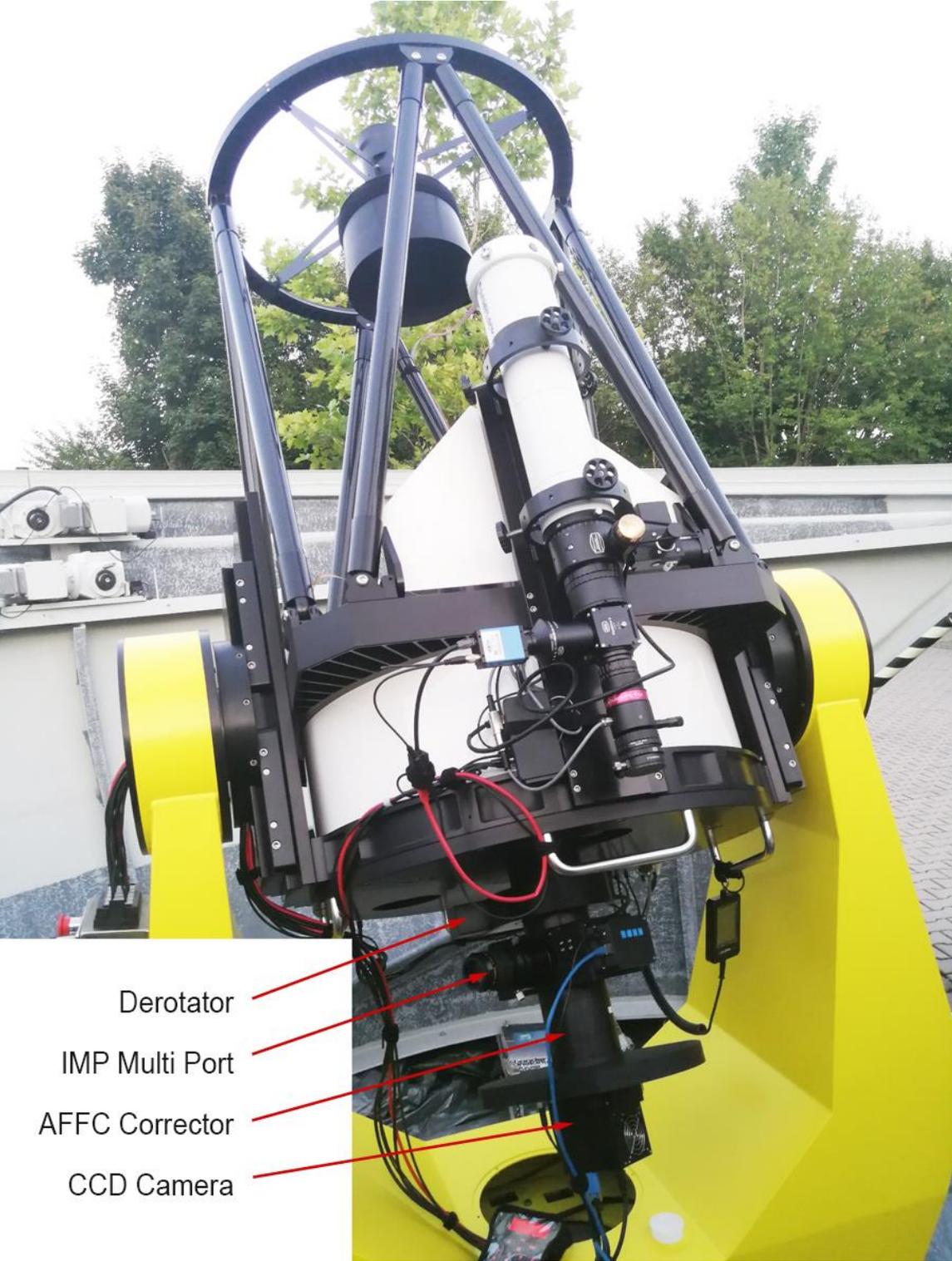
Two individually adjustable 40x40mm mirrors made of quartz glass with the highest optical quality can be inserted electronically and with the greatest **possible repeat accuracy** in the light path in order to **redirect** the light to port 2 or port 3. These ports can be used for various other optical instruments such as spectrographs, video cameras, planetary cameras or a simple eyepiece.

The **working distances of the three connection ports** are clearly defined and easily adaptable to all common systems using standard adapters. The instruments can thus be connected more or less parfocally to all three ports via an individual combination of adapters. We are happy to help you find the optimal configuration for your application.
Since a large number of adaptations are possible, the IMP85 is delivered without an adapter. A large number of telescope-side and camera-side adapters are available from stock. For customer-specific applications, we provide the design for the flange on request. Whenever possible, we only use Ethernet-controlled devices for all of our remote observatories. Therefore, the IMP85 is currently only connected to the PC / observatory network via a network connection and controlled via a slightly intuitive web interface. A small manual port selection switch is attached to

the side of the IMP85. ASCOM is currently not supported, ASCOM-Alpaka drivers are in preparation.

IMP on Alluna RC24AZ5000

Derotator

IMP Multi Port

AFFC Corrector

CCD Camera

Technical Specifications

ITEM NUMBER (#)	2451300
EAN CODE	4047825044341
INNER DIAMETER / FREE OPENING (MM)	Port 1: 85 mm, Port 2: 67 mm, Port 3: 67 mm
REQUIRED BACK FOCUS	Port 1: 90 mm, Port 2: 110.5 mm, Port 3: 110.5 mm
LENGTH (MM)	230
HEIGHT (MM)	90
THICKNESS (MM)	131
INCL. ACCESSORIES	3m Ethernet cable, 12V power supply (US, UK and EU adapters included), six M5 threaded screws
CAMERA CONNECTION	Port: 120 x 7.5mm dovetail | Port 2 and 3: M68x1 inside
INTERNAL CONNECTION (TELESCOPE SIDE)	Ring swallow
INNER CONNECTION (EYEPIECE / CAMERA SIDE)	M68 x 1
EXTERNAL CONNECTION (EYEPIECE / CAMERA SIDE)	M68 x 1
CONNECTIONS	Connection with Ethernet cable to local network
CONTROL INTERFACE	Web interface in the device
OPTIONAL ACCESSORIES	Available (optional) telescope connections Alluna M100x1, AZ5000 and various others. |Available (optional) camera adapters: Suitable adapters for different cameras are available on request.