unpacking

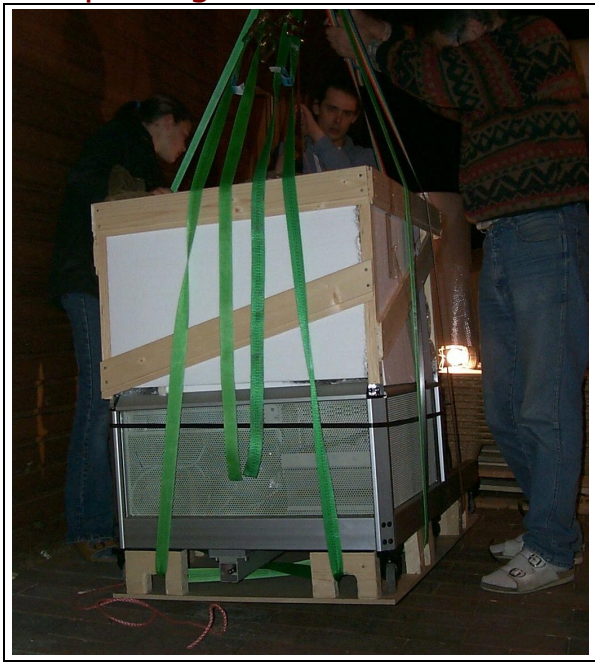

Figure 1:

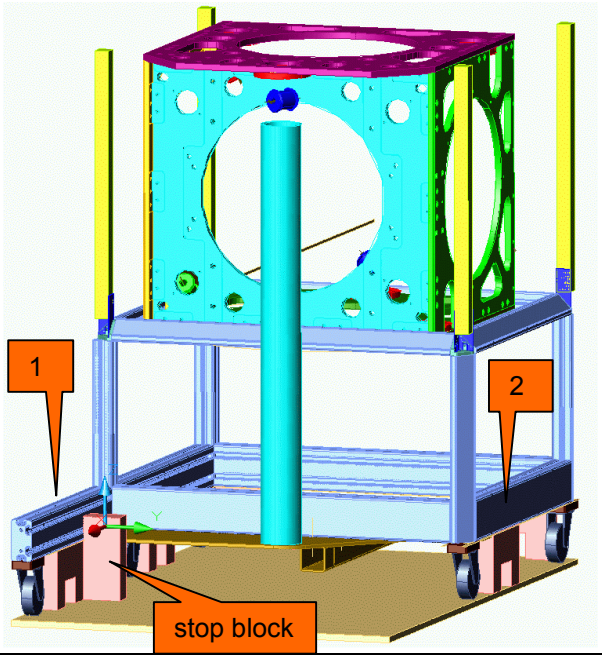

Figure 2:

unload the box

Figure 1 shows the loading procedure and figure 2 is a construction sketch showing how the carrier is positioned on the panel at the bottom of the box.

- open the box at the top end
- one of the long sides of the box can be folded down after cutting the tape in the corners
- remove the goods on the left side
- cut off the bottom from the box – run with a knife close at the bottom (less than 12mm) all around the box.
- remove the box in upper direction
- leave the box that contains parts with a cable connection (fig. 5) at its fixed position
- remove all packing material
- cut the fastening bands 1 and 2 in fig. 2

remove the stop block

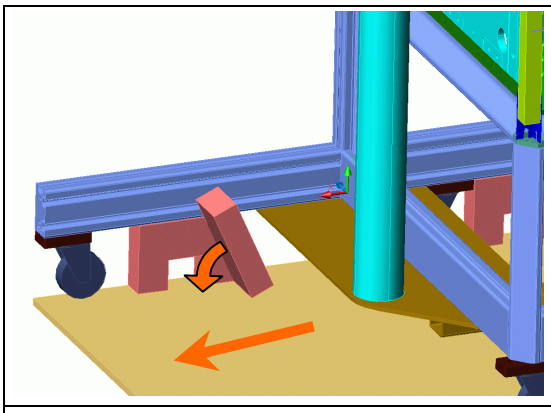

Figure 3:

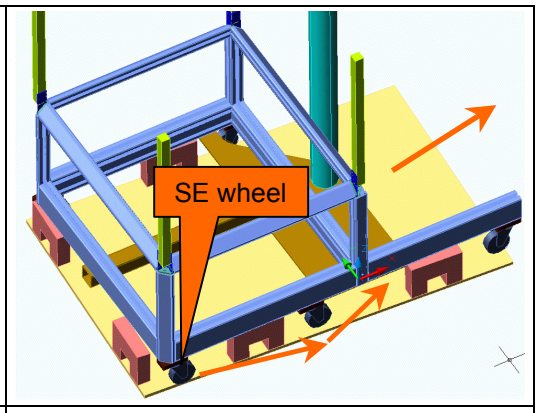

Figure 4:

- remove the screws that fastens the stop block to the support block
- the remaining screws are inserted from the bottom – therefore knock the block in direction of the red arrow (north direction – see fig. 3)

remove the system from the bottom panel

- move the system 5 cm in north direction (fig. 4) until the carrier comes off the supporting blocks in the back (south)
- move the system in the north direction that the south eastern wheel makes a way as shown in fig. 4

remove the wooden transportation holding

Figure 5:

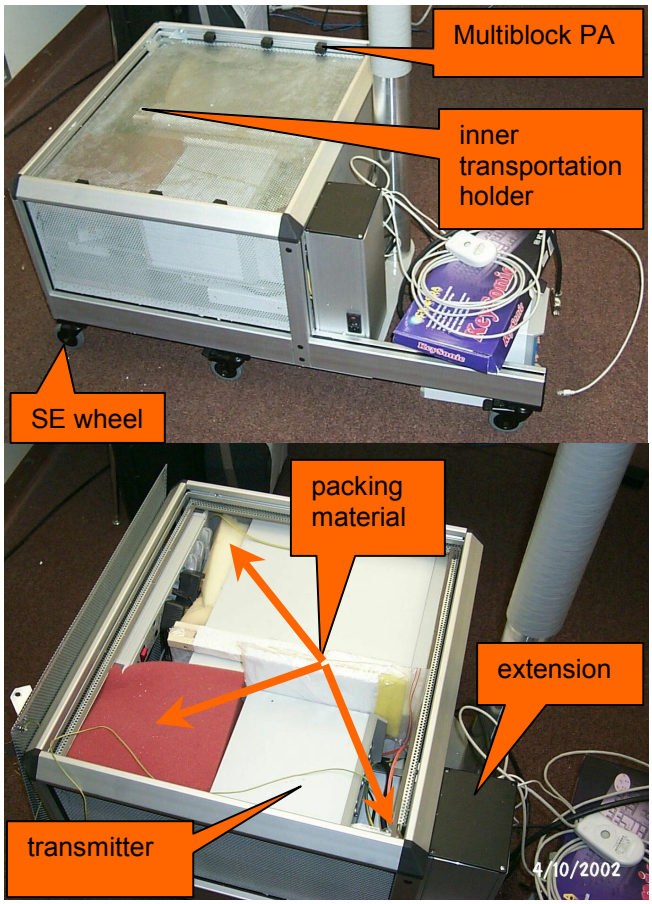

Figure 6:

- remove the lower northern board (fig. 5)

- use a 5mm hexagon key (metric) to loose all 8 vertical orientated screws (2 at each corner of the carrier)
- move the wooden transportation holding in upper direction off the system
- fasten the loosed screws
- remove the packing material and store the EMA Cube in a save place.
- make sure that the more open side points to the bottom. In this position, the both plates with transmitters are perpendicular

unpack the box fastened on the carrier (fig. 5)

The parts in this box are not freely movable because they have a cable connection to parts inside the carrier. Be careful not to pull the cable.

open the carriers cover

- remove the screws in the inner transportation holder (fig. 6)
- remove the Multiblocks (turn counter clockwise) and keep them
- activate the breaks at the northern wheels.
- tilt the system by bringing up the SE wheel up by about 25 cm
- remove the screws in the inner transportation holder from the bottom side
- remove the screw from the cover holder and put the cover beside the carrier (fig. 6)

At several places there are black rubber foam parts 5 mm in thickness. These parts are for normal system use – please do not remove.

- remove the packing material inside the carrier

connect the AG200 helmet

- open the cover from the extension (fig. 6)
- led the three cable from the helmet into the carrier in the same way as the other cable are.
- connect each cable to the socket on the transmitter that's name matches with the name on the cables sticker.
- close the extensions cover

close the cover from the carrier

- put the cover back to its original position
- insert the screws
- press down the cover before fastening the screws
- insert the Multiblocks in the groove at positions, that they will carry the wooden cover.

close the carrier with the wooden cover

install the Ema Cube holder

- put the tray table over the aluminium tube (fig. 7 and 8)
- bring the fiber glass pillar over the aluminium pipe
- make some clockwise turns to bring it into the thread

Figure 7:

Figure 8:

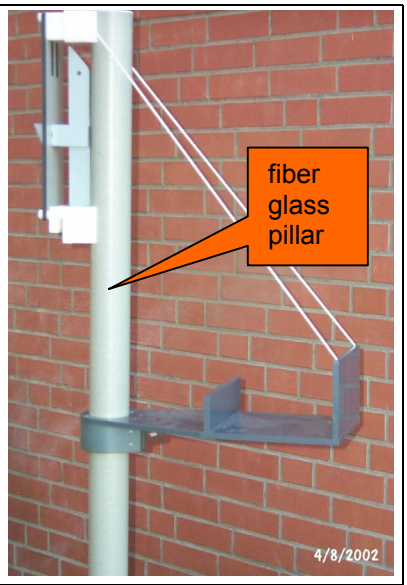

Figure 9:

- move the tray table over the fiber glass pillar in a far upper position
- put each end of the rope through the hole in the tray table's wall and make a knot.
- move the tray table downwards until the ropes are tight and the table is horizontal
- genly fasten the tray table at this position

put the Receiver PSR 12 on the tray table

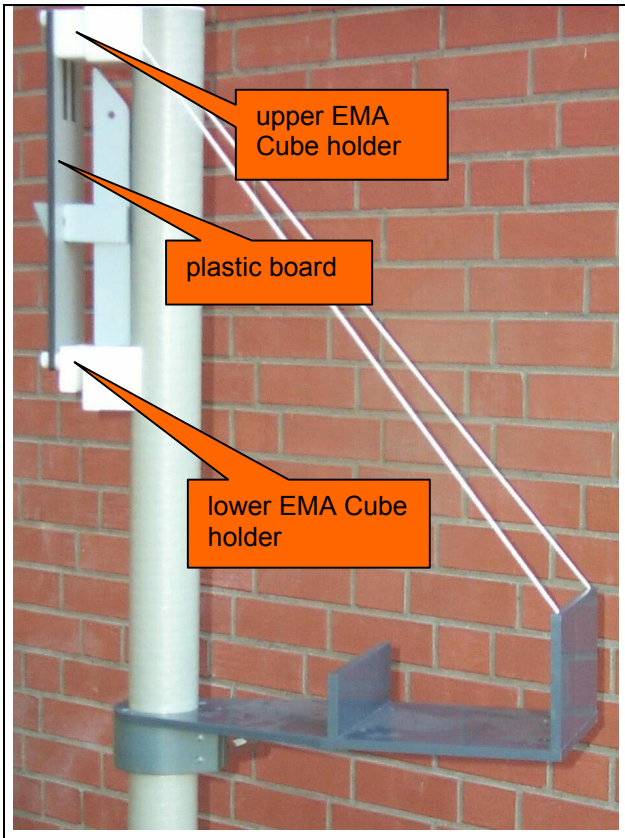

Figure 10:

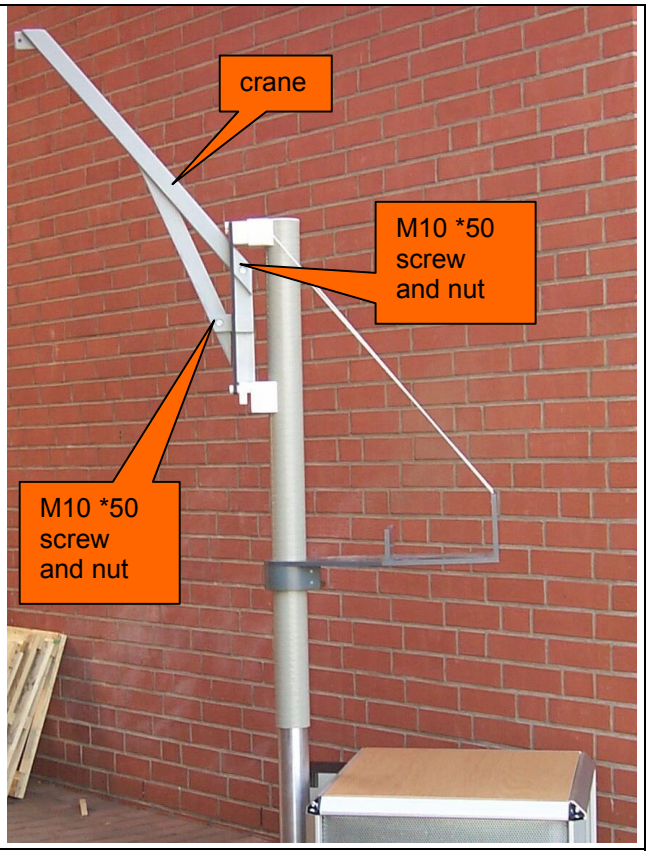

Figure 11:

For the AG200 use, the optimal position for the tray table and the Receiver PSR 12 is different to the AG500 use.

- assume that the crane is pointing into the north direction and the tray in the south direction (fig. 11)

- put the Receiver PSR 12 with the front side pointing east and the black cable to the west
- the stands of the receiver will fit in the bottom holes of the tray table
- rotate the tray table around the fibre glass pillar by 75 degree that the tray is almost pointing east while the crane still points north
- make sure that the ropes have the same strength and the tray table is horizontal
- fasten the screws of the tray table (not too strong) to fix its position

assemble the suspension for the 32cm helmet

- notice how the plastic board is attached to the upper and lower EMA Cube holder
- remove the plastic board
- disassemble the crane and assemble it together with the plastic board
- attach the to the upper and lower EMA Cube holder
- fasten the helmet holder on its counterpart that is fixed at the balancer
- put the helmet in its holder
- adjust the balancer strength with the hexagon key until the helmet holds its height position.

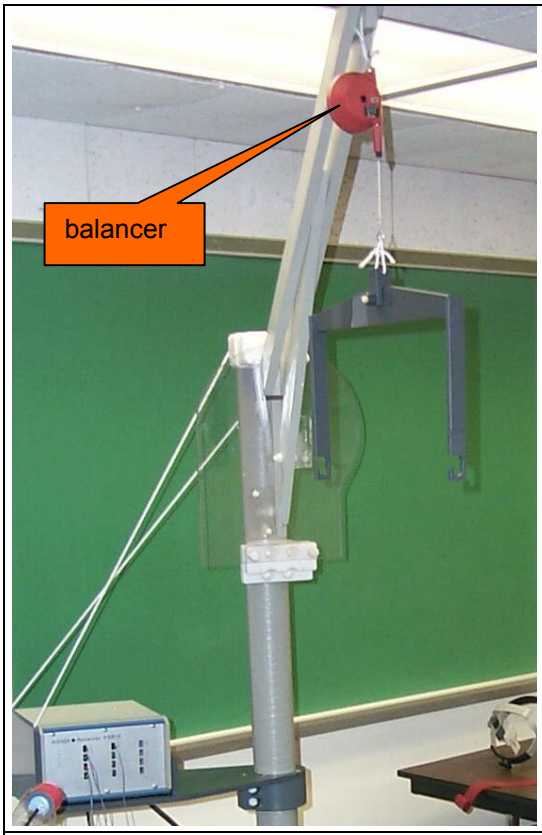

Figure 12:

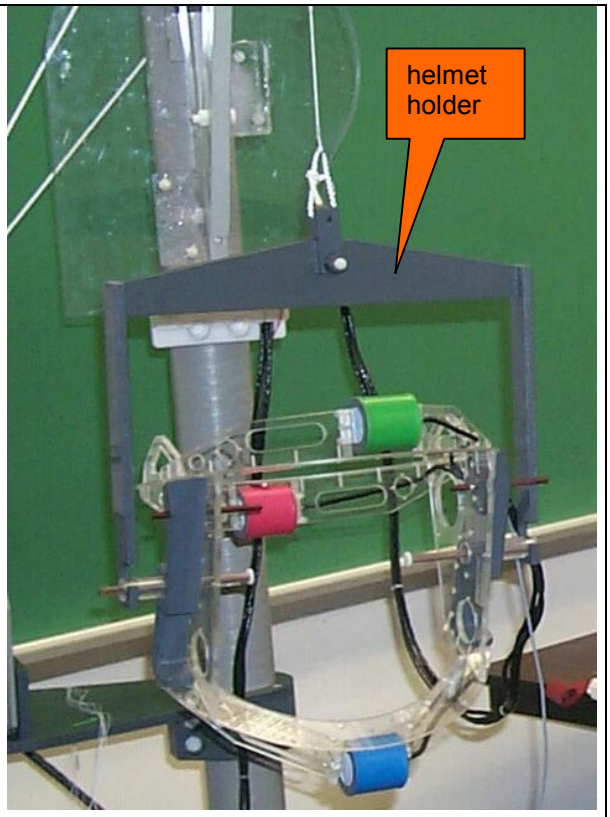

Figure 13:

connect the Sybox

Figure 14:

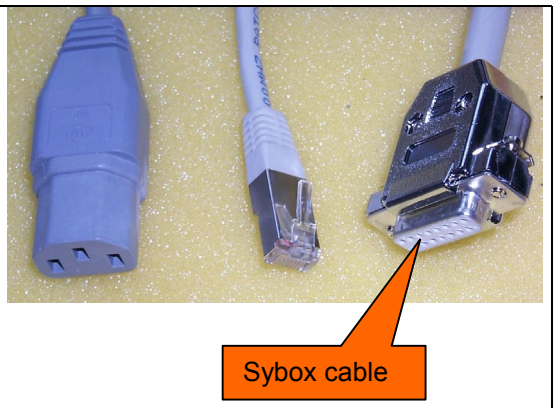

Figure 15:

- connect the Sybox cable with the female DB 16 connector to the “TransPC” connector at the Sybox

temporary connect a monitor

One of the two remaining cable is a monitor extension cable. Connect a monitor to this cable and switch on the monitor.

switch on power

- make sure that the main power switch at the east side from the extension is in “off” position.
- insert the ac power cable and switch power on
- the monitor shows the Trans-Computer coming up – Maggen.exe and AGMaster.exe will start within the auto start procedure

check hardware function

- use the AGMaster functions to check if the system is running correct – for details, refer to the AGMaster Manual
- press and relase the [Alt+Ctrl+Shift] key on left side of the keyboard – then press 2 and [enter]
- the monitor is now connected to the PSR-Computer
- switch back to the Trans-Computer: press and release the [Alt+Ctrl+Shift] key 1 [enter]

connect the system to your network

In the above situation, the system is running completely. There is an internal network switch that connects the Trans-Computer and the PSR-Computer.

This switch has an optical connection to a media converter to offer a network connection to your network. The network cable comes out of the extension an can be connected to a 100Mbit uplink port.

A network connection allows you to increase the system performance by distributing the program activity to more computers.

Especially for the AG500 use, it is recommended to integrate other computer into the systems work.

- If it is necessary, change the IP-address and the hosts file on the Trans-Computer and the PSR-Computer
- connect the network cable to a 100MBit uplink port (to use a normal 100MBit port, toggle the switch on the media converter inside the extension.
- check if your computer can see the Trans-Computer and the PSR-Computer.
- the system function should be the same as before the network connection

install the AGMaster.exe on your computer

AGMaster is a server program and need not to know where (on what computer) to find the Clients.

The clients “Maggen.exe” on the Trans-Computer and “Senrec.exe” on the PSR-Computer must be able to find the computer with the “AGMaster.exe” running.

- copy the AGMaster.exe and MD4Filter.txt into the same folder on your computer
- create a folder named “rawdata” in the root directory from your drive D (d:\rawdata)
- make this folder public with unconditional read/write access
- start the AGMaster program – the program comes up but will have no clients at the moment

install the MC500.exe program

The MC500.exe program is a client program and needs to know where to find the AGMaster program and optionally the AG5SNDRec program.

- copy the MC500.exe program to your computer or to another computer and start it
- enter the name of your Trans-Computer (for example: “Trans1”)
- wait until the MC500 window with a green bar (system running) appears
- select system control | switch AGMaster
- type the name or IP address of your computer where the AGMaster is running without clients
- check if your computer got both clients and the AGMaster on the Trans-Computer is idle now

install the AG5SNDRec.exe for audio recording (optional)

AG5SNDRec is a server program and need not to know the Clients. The MC500 program as Client establishes the connection to AG5SNDRec.

All clients have the possibility to select a computer name where to find the server