NexStar Cabling Summary Diagram (version 1.1, January 2009)
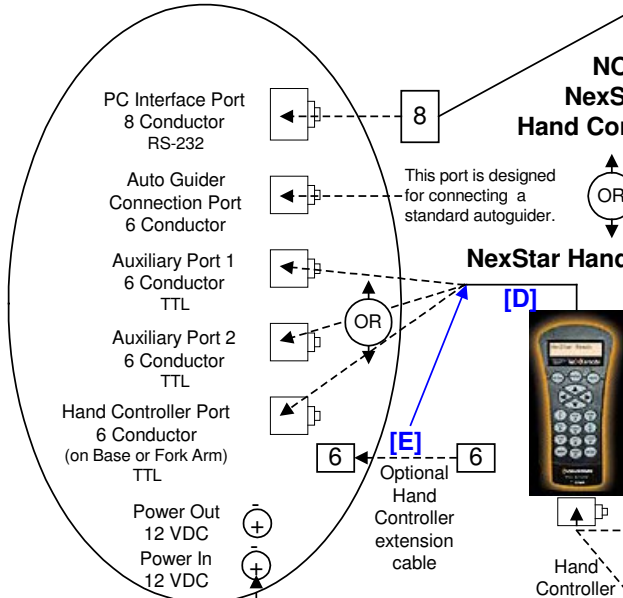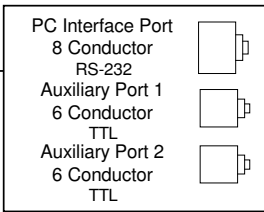**Available on the NexStar Resource Site:** http://www.NexStarSite.com

NexStar Telescope

(There are a number of generations of NexStar telescopes. Some models may not have all these ports. See the NexStar site for information on each.)

PC Interface Port
8 Conductor
RS-232

Auto Guider
Connection Port
6 Conductor

Auxiliary Port 1
6 Conductor
TTL

Auxiliary Port 2
6 Conductor
TTL

Hand Controller Port
6 Conductor
(on Base or Fork Arm)
TTL

Power Out
12 VDC
Power In
12 VDC

To 110 VAC Power Module, or
[P] Adapter, Car Battery #18769

To AUX Port

(See the NexStar Resource site for information on other port converters for different NexStar scopes.)

PC Interface Port
8 Conductor
RS-232
Auxiliary Port 1
6 Conductor
TTL
Auxiliary Port 2
6 Conductor
TTL

Auxiliary Port Accessory Kit
(part number 93965)
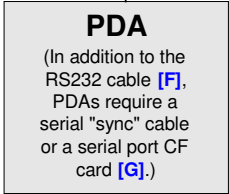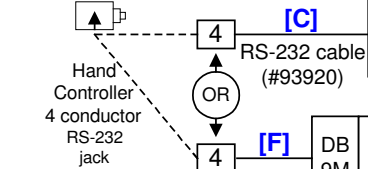
Diagram by: Larry McNish

**NO
NexStar
Hand Controller**

This port is designed for connecting a standard autoguider.

OR

NexStar Hand Controller

[D]

Only versions 4 and later allow Hand Controller software reprogramming.

[E]
Optional
Hand
Controller
extension
cable

Hand
Controller
4 conductor
RS-232
jack

8 **[A]** 8 DB 9F
Optional
Programming
Cable (#93922)

OR

DB 9M **[B]** USB

3rd party Serial-To-USB
Adapter cable

USB to RS232
Converter CD
(driver)
(available at many telescope dealers and computer stores for PCs without an available serial port)

6 **[E]** 6

4 **[C]** DB 9F
RS-232 cable
(#93920)

OR

4 **[F]** DB 9M | DB 9F **[G]**

DB 9M **[B]** USB

3rd party Serial-To-USB
Adapter cable

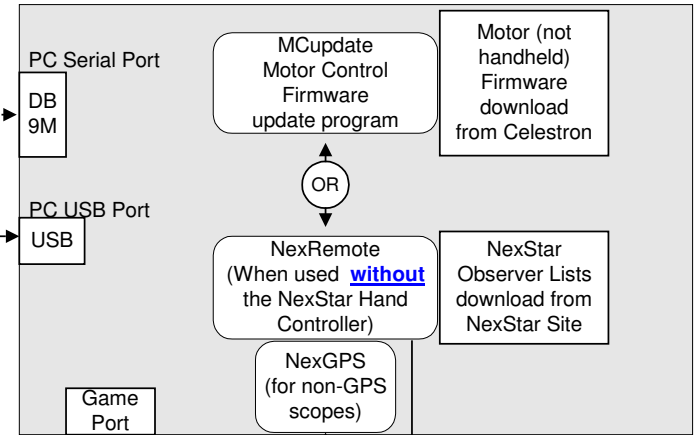USB to RS232
Converter CD
(driver)

PDA
(In addition to the RS232 cable **[F]**, PDAs require a serial "sync" cable or a serial port CF card **[G]**.)

Note: Other 3rd party PC / PDA software is available that provides additional NexStar functionality or allows the telescope to be controlled remotely. See the NexStar Resource site for further information.
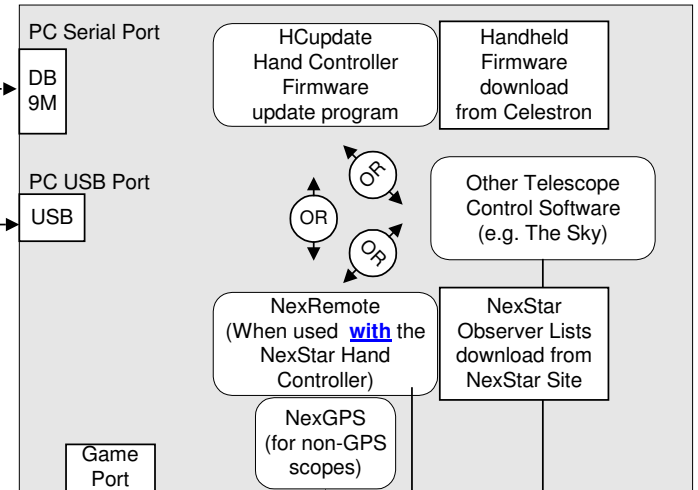
[A] - **[P]** simple cable reference designations

Personal Computer

PC Serial Port
DB 9M

PC USB Port
USB

Game Port

Logitec Wireless
Game Controller

MCupdate
Motor Control
Firmware
update program

OR

NexRemote
(When used **without** the NexStar Hand Controller)

NexGPS
(for non-GPS scopes)

G P S

Motor (not handheld)
Firmware
download
from Celestron

NexStar
Observer Lists
download from
NexStar Site

Must use NexRemote to perform the telescope alignment

PC Serial Port
DB 9M

PC USB Port
USB

Game Port

Logitec Wireless
Game Controller

HCupdate
Hand Controller
Firmware
update program

OR   OR   OR

NexRemote
(When used **with** the NexStar Hand Controller)

NexGPS
(for non-GPS scopes)

G P S

Handheld
Firmware
download
from Celestron

Other Telescope
Control Software
(e.g. The Sky)

NexStar
Observer Lists
download from
NexStar Site

Must use NexRemote, not the Hand Controller to perform the telescope alignment.

Don't touch the hand controller when NexRemote is in control.

Must use the Hand Controller to perform the telescope alignment then use (or switch to) the RS-232 input for the control software in the PC to locate objects etc. when using other scope software.