



Houston Astros upgrade displays at Minute Maid Park.

The new board at Minute Maid Park in Houston—dubbed El Grande—is the among the largest video boards in the Major Leagues to feature a 1080i display format. The scoreboard is 54 feet high and 124 feet wide.

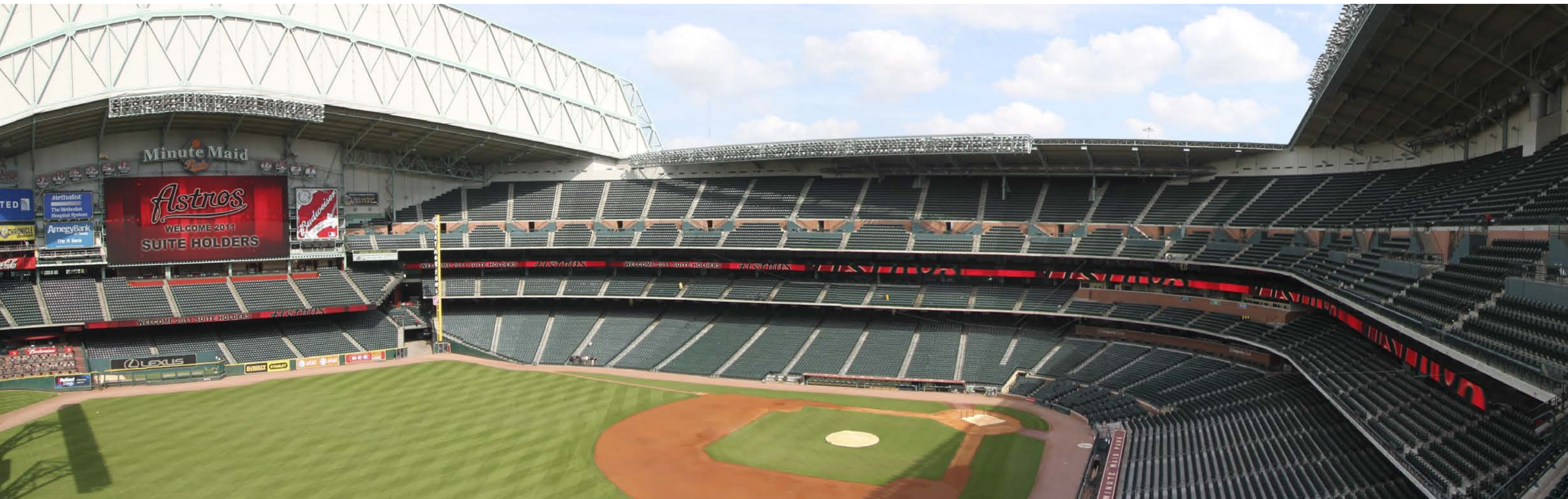
As part of the \$13 million in upgrades, a new secondary LED HD video board—dubbed El Niño—was installed in left field. El Niño measures 45 feet high and 24 feet wide, so fans sitting in the Bullpen and Mezzanine seats can enjoy in-game features and information. Both boards are made by Daktronics. The ribbon boards are above the Club Level, run from foul pole to foul pole and the outfield mezzanine area measuring a total of 1,185 feet.

To support the new boards the control room was moved to a new location and upgraded to a 1080i HD system with 4 Sony manned cameras and 5 Canon PTZ cameras to cover every seat in the facility.

Diversified Systems provided the integration of the systems.



Astros broadcaster, Jim Deshaies, termed the new master control “the ultimate man cave.”



Minute Maid Park The overall seating capacity of Minute Maid Park is 40,963, featuring nine different seating areas: Dugout Boxes, Field Boxes, Crawford Boxes, Bullpen Boxes, Club Tier I, Club Tier II, Terrace Deck, Mezzanine, and Upper Deck. Each of the ballpark's four levels—Main Concourse, Club Level, Suite Level, and Upper Concourse—afford fans a uniquely different perspective.

Video Switcher The Evertz video routing system also provides the multiview monitoring solution to view all sources from the field, truck dock, or internal graphics as well as all destinations from the 4ME Sony MVS-8000x switcher.

The Sony switcher is mounted in a custom TBC Console where the TD has access to a waveform/vectorscope, an Evertz XY router control panel and a digital matrix intercom station.



Edit Suite This room is one of four edit suites all connected to the AVID ISIS 5000 system. There is a combination of Avid Media Composer and Apple Final Cut Pro Edit stations as well as one dedicated audio post production edit suite. Custom consoles for the edit suites were provided by Sound Construction and Supply.



Kirby's Seat This position has master router control, and multiview monitor station (for camera shots as well as program video), count-down timers (for inning breaks), a KVM station (for seeing all computers in the control room) and a digital matrix intercom station. There is a view to home plate as well as the main right field LED display.

QUICK FACTS

Main LED Video Board

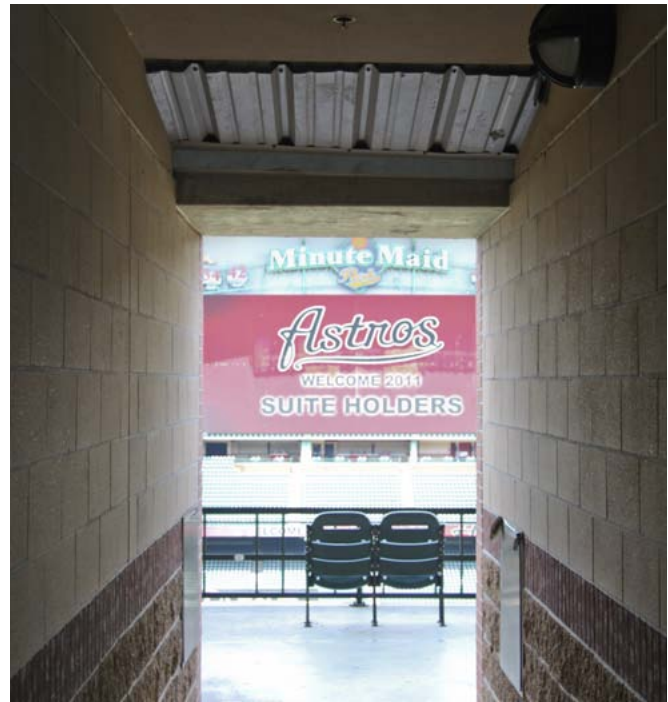
Located in right field
54 feet high x 124 feet wide (measures five stories high)
Square Pixels: 1,080 feet (h) x 2,472 feet (w)
1080i High Definition Quality
Total Square Footage: 6,695 (approximately)
Fourth-largest video board in MLB (3rd in NL)

Secondary LED Video Board

Located in left field
24 feet high x 40 feet wide
Square Pixels: 480 feet (h) x 792 feet (w)
1080i High Definition Quality

Ribbon Boards

Located above Club level
Combined 1,185 feet in length (3 feet, 8 inches high)



EQUIPMENT LIST

- (4) Sony HSC300K
- (4) Sony HSCU300K
- (4) Sony RCP1500
- (4) Sony HDVFEL75
- (2) Sony HDVF20A
- (1) Sony MVS8000X
- (1) Sony PDWF1600
- (5) Sony FWDS47H1
- (3) Sony LMD2451WHD
- (1) Sony LMD2051WHD
- (3) Sony KDL40EX500
- (2) Canon XJ86X93BIEPSS
- (2) Canon HJ22X76BIRSEA
- (5) Canon BU46H PTZ Camera
- (5) Telecast MCA5422-A Transceiver
- (1) Vaddio PRODUCTIONVIEW-P-C
- (2) Vinten Vector 90 Head
- (2) Vinten Vision 250
- (1) Evertz Xenon 96x96 HD-SDI Router
- (1) Evertz Xenon 64x64 Stereo Analog Audio Router
- (9) Evertz CP-1000E
- (2) Evertz CP-2048E
- (1) Evertz CP-2272E
- (1) Evertz CP-1604E
- (1) Evertz CP-1604E-DMK
- (1) Evertz CP-1024E
- (1) Evertz EQX-SERVE-SS
- (6) Evertz 7800FR+78P
- (5) Evertz 7867VIPX-16x2
- (1) Evertz 7867VIPX-8x2
- (1) Evertz MVP SERVER
- (1) Evertz 5600MSC+2PS+M+STG+HTG
- (3) Evertz 500FR+5PS
- (22) Evertz 500DA2Q-HD
- (6) Evertz 500DA-HD
- (4) Evertz 510DCDA-HD
- (2) Evertz 7743DLY-HD+3RU
- (6) Evertz 520AE4-HD
- (6) Evertz 7746FSE-HD+3RU
- (2) Evertz 3405FR-BNC+PSX-2
- (2) Evertz 7707AT13-A8+ST+3RU
- (2) Evertz 7707AR-A8+ST+3RU
- (2) Evertz 7707IT13-3-F2+ST+3RU
- (2) Evertz 7707DT13-F2+ST+3RU
- (1) ABEKAS CLIPSTORE MXc
- (1) AVID Deko 3000HD
- (1) EVS HD Upgrade Package
- (2) ADC Triax Patching
- (1) ADC 422 Control Patching
- (10) ADC HD-SDI Video Patching
- (6) ADC Analog Audio Patching
- (1) ADC Data Patching
- (5) AJA Video KI-PRO-R0
- (2) AJA Video HDP2
- (1) Analog Way TVC401
- (1) Avocent AMX5000-AM
- (1) Bosch RTS Cronus Matrix
- (6) Bosch RTS KP12-LK
- (9) Bosch RTS MKP-4
- (9) Bosch RTS MCS-325
- (1) Bosch RTS DKP8LK
- (6) Bosch RTS BP-351
- (14) Bosch RTS PH-88R5
- (3) Beyerdynamic DT108
- (7) Beyerdynamic DT109
- (9) Dell G2410H
- (7) Dell P190S
- (2) Ensemble Designs Brighteye 92M
- (2) Ensemble Designs Brighteye 33
- (2) Ensemble Designs Brighteye 41
- (3) Ensemble Designs Brighteye75
- (1) Harris UDT-5701
- (2) Harris CMN-91
- (3) Marshall V-R72P-2HDSOI
- (4) Oxmoor MDA-26T
- (2) Mackie MR5
- (1) Mackie 1642-VLZ3
- (1) Wohler AMP1A-106
- (7) Wohler AMP1A-PLUS
- (15) Wohler AMP1A-VTR2
- (1) Wohler AMP1A-LP-10S
- (14) TBC Consoles Production Consoles
- (3) TBC Consoles SmartTrac 3 Bay
- (1) TBC Consoles SmartTrac 2 Bay
- (2) Contemporary Research 232-ATSC+
- (1) Blonder Tongue HDE-ADI
- (1) Blonder Tongue MIRC-12V
- (1) Blonder Tongue MIPS-12C
- (1) Blonder Tongue AQM