



## Cynovad ShadeScan Shade-Selection Device (Project 05-28) (7/06)

The Cynovad ShadeScan™ electronic shade-selection unit captures digital images and determines shades by interpreting the images with Artificial Vision™ software. The image is captured by a corded-handpiece and can be viewed on its 1.5" x 2" LCD screen, or downloaded onto a computer. The ShadeScan system generates graphic Shade Maps, Translucency Maps, and value-chroma-hue Difference Maps that can be assimilated into single-page, multi-pictorial laboratory reports. ShadeScan also has a ShadeWhite™ feature for displaying potential results of tooth whitening. Cynovad states ShadeScan can select Vita Classical, Vita 3D-Master, Ivoclar Chromascop, Shofu Vintage Halo, Noritake, and Dentsply EsthetX shades. It has a one year warranty, measures 6"H x 9"W x 15"D, weighs 12.5 pounds, and requires 110/240 VAC and 50/60 Hz.



### Manufacturer:

Cynovad  
9710 Trans-Canada Highway  
Montreal (Quebec) Canada H4S 1V9  
(866) 296-6823  
(514) 337-1444  
(514) 337-0903 FAX  
[www.cynovad.com](http://www.cynovad.com)

### Suggested Retail & Government Price:

\$3,490.00	ShadeScan™ system (item number SSD0231) includes: <ul style="list-style-type: none"><li>- Console/handpiece</li><li>- ShadeScan™ Plus software</li><li>- ShadePort™</li><li>- ShadeDisk™ (pkg of 4)</li><li>- ShadeGuard™ (pkg of 20)</li><li>- 3 replacement bulbs</li></ul>
\$500.00	ShadeScan™ Plus software/additional copy (1 copy included with system)
\$395.00	2-year extended warranty
\$175.00	ShadeGuard™ (pkg of 50)

### ADVANTAGES:

- + Compatible with porcelain shade systems used in the Federal Dental Services
- + Augments the traditional visual method of shade selection
- + Produces detailed mappings of shade, translucency, value, chroma, and hue
- + Generates multi-pictorial laboratory prescription reports
- + Facilitates electronic communication with laboratory
- + May be beneficial in teaching programs
- + ShadeWhite feature depicts potential results of tooth whitening

### DISADVANTAGES:

- Computer required for most functions
- Heavy console with corded-handpiece and 10-minute warm-up time
- Complex with steep learning curve
- More time-consuming than traditional visual method of shade-selection
- Extent of detail may be difficult for laboratory technician to reproduce
- Large handpiece limits use to anterior teeth only
- Small LCD screen can be difficult to view

### SUMMARY AND CONCLUSIONS:

The Cynovad ShadeScan captures an image, produces an array of detailed mappings based on shade,

translucency, value, hue, and chroma, and assimilates these into multi-pictorial reports for communicating with the laboratory technician. The ShadeScan is compatible with porcelain shade systems typically used in the Federal Dental Services (e.g., Vita Classical, Vitapan 3D-Master, and Chromascop). All evaluators were impressed with the detailed mappings produced by the ShadeScan, while some stated the fine detail in the Shade Maps and the value-chroma-hue maps was of minimal value since it would be difficult for a technician to reproduce. Compared to the traditional visual method of shade-selection most evaluators stated the ShadeScan provided better clinical results, but took appreciably more time. Evaluators stated the unit was complex and noted its large footprint due to the weight of the console, size of the corded-handpiece, warm-up time, and need for a computer. Overall opinions of the ShadeScan ranged from excellent to fair, with four evaluators saying they would recommend purchase and three saying they would not. For residency programs or large prosthodontic departments the **Cynovad ShadeScan** is rated **Acceptable** for use in US Air Force dental facilities.