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**July 1990** 



[];];[][];[];];

OUT OF THE SHRINKING MACHINE! NEC SHOWS OFF THE TURBOGRAFX-16 PORTABLE!

Look Inside for Details!

YOU COULD WIN A TG -16 SYSTEM-TURN TO PAGE 58 FOR CONTEST RULES

Comprehensive Game Boy Buyer's Guide Gaming on the Go: A New Column

# THE TURBOGRAFX-16 GOES INTOTHE MACHINE

ANDY EDDY



56

VG&CE first reported on the possi- (million instructions per second) and or SMS portable eventually leads to ed game player.

in Chicago (June 2-5, 1990), which spective of the action on each TGP. purchase in this country.

As we've already noted in our previous coverage, the TurboGrafx-16 portable (we'll refer to it as the TGP) will play all existing TurboChip the TurboChips, the "cartridges" that without smearing or blurring. games, which is its obvious advantage. Unlike the Lynx and Game Boy, NEC won't have to develop and pro- the top rear of the unit, there is a production. Epson, NEC's TGP disduce another software line to support small opening where the TurboChip play manufacturer, rejects any screen the portable.

That's the strength of the TGP: It's identical to the TG-16 from a hardware standpoint. Lots of readers call to ask us about specifications, mainly resolution, and want to know which system is strongest. These days it's not so much resolution that's important anymore, but instead the number of colors that can be displayed simultaneously. In the TG-16's case—and, therefore, the TGP—the specs report that up to sixteen 16-color palettes can be put on-screen simultaneously, which means 256 different colors out of a possible 512.

Colors and resolution aren't the only things that the TGP will borrow from its big brother. It will also use the same processor, handle 1.5 MIPS

our April 1990 News Bits. Unfortunetworking capabilities for multiplay-concern with the TGP. nately, little news has since come out er games, the TGP will also feature a

leads us to think—and the reliable The TGP, much like the Game Boy for introduction in America this too. On the lower half of the face,

> hold the game information, the TGP doesn't need a large cartridge slot. At screens is costly and can slow down fits snugly. In contrast, talk of an NES with even one nonworking dot.

bility of a TurboGrafx-16 portable in allow up to 64 sprites per screen with discussions of size and how much bigger a portable game machine 1990 issue, then showed you an Similar to the Game Boy and Lynx, would have to be built in order to artist's representation of the unit in which were constructed with built-in handle those bulky cartridges—not a

What would a portable be without of Japan, where the machine is being communication-link cable that will battery power? The TGP requires six developed, about this much anticipat- allow two-player games. For this rea- "AA" batteries to run, which NEC figson, NEC will start developing games ures will last a minimum of 3-5 hours As this issue was going to press, that take advantage of this capability, during normal usage. The plan is also VG&CE acquired more data and pic- rather than offering TGP-specific soft- to offer a rechargeable battery pack, tures on the "Game Tank," the work- ware. Rumor has it that the first game an AC adapter and a car cigaretteing title for the TG-16 portable. It was the communication link will be tested lighter cable, but it hadn't been scheduled to be on display for the on is a head-to-head air-hockey con-decided at press time which of those Summer Consumer Electronics Show test, with each person seeing his per- items would be optional and which would be part of the TGP package.

As we spent time with a prototype sources of our grapevine back this in size and shape, is equipped with of the TGP at the R&D laboratories in up—that the portable will be ready all the necessities—bells and whistles Japan, we were amazed at how crisp the picture was. It was so clear, we Christmas. VG&CE will update you as just under the screen and speaker could easily read the numbers and to when the TG-16 portable, as yet slots, are the controls. Not only does characters on the power-up capsules unnamed, is firmly announced for it have the standard directional as we played Blazing Lazers. Similarrosette and buttons for SELECT, ly, the charts and maps of Military RUN, "I" and "II" functions (as on the Madness were crystal clear. The credit TurboGrafx controllers), it's also been for the high-quality visuals goes to furnished with "turbo" switches to the type of screen used: an MIM individually alter the rate of autofiring Active Matrix LC (liquid crystal) disby each "I" and "II" button. Addition- play. "Active Matrix" means that each ally, the TGP will have a stereo-head- dot on the screen has a separate transistor controlling it, so the screen Thanks to the diminutive size of information can be updated quickly

Unfortunately, using active-matrix

### TABLE OF SPECIFICATIONS

Base Unit: 185mm x 110mm x 46mm

(approx.  $7^{1/4}$ " x  $4^{1/4}$ " x  $1^{3/4}$ ")

410 grams w/o batteries (approx. 14 ½ ounces) 560 grams w/batteries (approx. 20 ounces) (identical to TurboGrafx-16 in hardware

specifications otherwise)

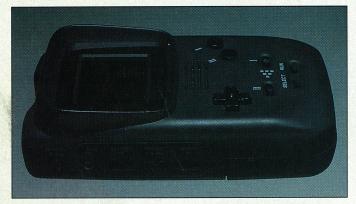
**Screen:** 39.7mm x 51.1mm

(approx. 1<sup>1</sup>/2" x 2") 312 x 238 dots (74,256 dots total)

**Tuner:** 113mm x 52mm x 40mm

(approx. 4 <sup>1</sup>/<sub>2</sub>" x 2" x 1 <sup>1</sup>/<sub>2</sub>")

150 grams (approx.  $5^{-1}/4$  ounces)



The left-side view of the TurboGrafx-16 portable keeps most of the controls close at hand (from left to right): a jack for off-board DC power, the stereo-headphone jack, a volume knob, a two-position brightness switch and a variable contrast knob.



A peek at the right side of the TGP yields perhaps the most exciting feature, a port that will hold the optional television tuner. This device will not only turn the TGP into a fully functioning TV, but also lets you use it as a monitor for other video sources, like a VCR or camcorder.

Speaking of the display, the resolution of the TGP is 312 x 238 for a total of 74,256 dots. This makes for not only a good picture for videogame playing, but also for TV watching. And the TGP won't be limited by available lighting, as is the case with Nintendo's Game Boy. The TGP will be equipped with a florescent backlight with a life span of approximately 4,000 hours of use.

# It's Not Just for Games

Did we say TV watching? Well, as we noted in the February issue, NEC is also planning to produce an optional tuner (with a rumored target price of \$79) that can couple to the

TGP, turning it into a fully functional UHF/VHF television. This tuner, though equipped with a telescoping rod antenna, will also have a separate antenna input.

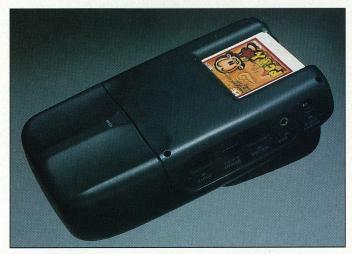
The coup de grace is that the tuner will also feature audio- and video-input jacks. This will allow the TGP to operate as a monitor for a camcorder, VCR or other video

device. As with the TG-16—which NEC is positioning as a home-entertainment device thanks to its CD unit—the TGP is more than just a video-game system. What will NEC think of next?

### **Stocking Stuffer**

Unfortunately, that's all the information we have—though it makes for a nice dream machine. It might be pushing it to expect that NEC could bring the TGP out by Christmas 1990, but knowing the determination that the company has displayed so far and its Japanese roots, it's even money that you could be holding a TGP in your hands by New Years Day 1991.

My palms are getting sweaty just thinking about it.  $\stackrel{\blacktriangle}{\bot}$ 



The compact size of the TurboChips makes it easy for NEC to work a portable around them. A slot at the top rear of the TGP holds the cartridge (in this case, the Japanese version of *Bonk's Adventure*); the door at the bottom opens to house six "AA" batteries.

# You Could Win a TurboGrafx16 System!

VIDEOGAMES & COMPUTER ENTERTAINMENT and NEC Technologies have joined together to offer our lucky readers the chance to win a TurboGrafx-16. The winner, picked at random, will receive a brand-new TG-16 game system, a TurboStick controller and assorted TurboChip games.

To enter, just send your name, address and phone number on a postcard to

VIDEOGAMES &
COMPUTER ENTERTAINMENT
9171 Wilshire Blvd., Suite 300
Beverly Hills, CA 90210
Attn: TG-16 Contest

All entries must be received by August 31, 1990, and the winner will be announced in the December issue of VG&CE. Best of luck to you!