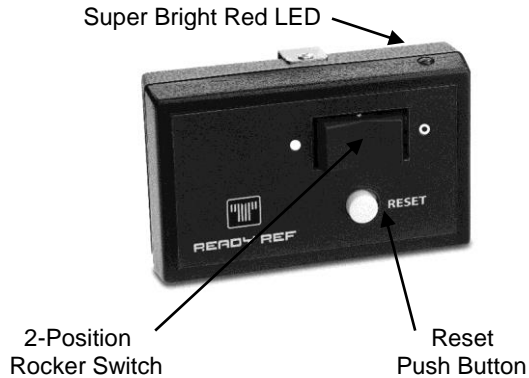


## Model #1100 Ready Ref



- ✓ **Small & Lightweight**  
3.8" Wide x 2.4" High x 1" Deep  
4.7 ounces
- ✓ **9-Volt Battery Included**  
10,000-cycle battery life
- ✓ **Microprocessor Circuit**  
Accurate to within .001 seconds
- ✓ **Secure 2" Belt Loop**



- ✓ **Rain Case Included**



- ✓ **Lifetime Warranty**  
Guaranteed to operate reliably for as long as you own it. Simply return Ready Ref with \$8 for return shipping, and we repair it free.

## To Order

Ready Ref is manufactured, sold, and serviced directly from our factory in Marietta, Ohio. Order online or call toll-free, Monday through Friday, 8:00 a.m. to 5:00 p.m. EDT. We are often available before and after office hours. Call us anytime.

Telephone orders placed using a credit card are shipped within 24 hours via USPS Priority Mail. Mail-in orders with a check or money order are shipped within 24 hours.

**Model 1100 Ready Ref.....\$69.00**

**Shipping & Handling.....\$8.00**

*Ohio residents add 7.25% sales tax*

Order online

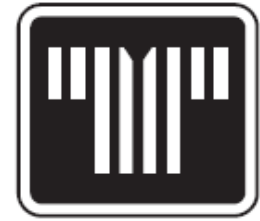
[www.ready-ref.com](http://www.ready-ref.com)

or

**1-800-223-5395**



Grimm Scientific Industries, Inc. TEL: 800-223-5395  
P.O. Box 2143 FAX: 740-374-5745  
Marietta, OH 45750 EMAIL: [grimm@ee.net](mailto:grimm@ee.net)



**READY REF**

**The Officials' Standard  
for On-Field Timing**



**Model 1100  
NFHS Football Timer**

- ✓ Allows you to concentrate on your responsibilities without the distraction of checking a wrist watch
- ✓ Gives teams the fairness of timing intervals permitted by rule and develops a nice, even flow to the game
- ✓ Silent vibrator provides discreet notification at 25 and 60 seconds with pre-warning signals at 20 and 45 seconds

[www.ready-ref.com](http://www.ready-ref.com)

#020101-8-21-12

## Operation

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1. Press the rocker switch to the “○” open circle position. Ready Ref will vibrate for two seconds at 20 seconds then vibrate again for five seconds at 25 seconds.
2. Press the rocker switch to the “●” white dot position. Ready Ref will vibrate for two seconds at 45-seconds for the coach’s warning then vibrate again for 5 seconds at 60 seconds to signal the conclusion of the time out.
3. The “Reset” push button resets the timer. Place finger on this button when teams line up and press it at the snap. Ready Ref will then only signal when needed.

## Maintenance

- Start each season with a new battery.
- Protect from direct heavy rain.
- When wet remove battery cover and battery then allow 24 hours to air dry.

**Important:** Every time you reconnect the battery, press the rocker switch to “○” open circle position and allow Ready Ref to finish one complete timing cycle thru both vibration signals until the LED cycles off. This will activate the microprocessor’s battery saving feature.

## Delay-of-Game

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### Five-Official Mechanics

*NFHS Officials Manual* recommends the Back Judge be responsible for timing the 25-second count following the ready-for-play signal. When on field 25-second clocks are not utilized the Back Judge will provide a visible count the last 5 seconds.



When Ready Ref signals the 20-second pre-warning vibration the Back Judge can either give the hand up signal and/or a five second basketball count based on the recommendation of your state or local association. The signal being used should be communicated to the head coaches during the pre-game meeting.

### Four-Official Mechanics

*NFHS Officials Manual* recommends the Referee be responsible for timing the 25-second count following the ready-for-play signal.

Referee can give a verbal “hurry up” warning at the 20-second pre-warning signal.

## Time-Out

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### Five-Official Mechanics

*NFHS Officials Manual* recommends the Back Judge be responsible for timing the 60-second interval.

When Ready Ref signals the 45-second pre-warning vibration the Back Judge should verbally notify the Referee, Linesman, and Line Judge to give the coach’s warning.

When Ready Ref signals the 60-second vibration the Back Judge should verbally notify the Referee who will give three short blasts with the whistle followed by the ready-for-play signal.

### Four-Official Mechanics

*NFHS Officials Manual* recommends the Referee be responsible for timing the 60-second interval. At 45 seconds Linesman and Line Judge to give the coach’s warning.

When Ready Ref signals the 60-second vibration the Referee will give three short blasts with the whistle followed by the ready-for-play signal.